

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:37 : Search time 15.5731 Seconds
(without alignments)
1736.110 Million cell updates/sec

Title: US-09-806-955A-1
Perfect score: 3273
Sequence: 1 MEEDKEDVGVGIDLGTT.....AGPPPTGEDTALHHHHH 639

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2.6/prodata/1/1aa/5A.COMB.pep:*
2: /cgn2.6/prodata/1/1aa/5B.COMB.pep:*
3: /cgn2.6/prodata/1/1aa/6A.COMB.pep:*
4: /cgn2.6/prodata/1/1aa/6B.COMB.pep:*
5: /cgn2.6/prodata/1/1aa/PCBUS.COMB.pep:*
6: /cgn2.6/prodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3209	98.0	654	1	US-08-441-139-11 Sequence 11, Appl
2	3168	96.8	666	1	US-08-441-139-16 Sequence 16, Appl
3	2313.5	70.7	655	4	US-09-632-538C-36 Sequence 36, Appl
4	2174	66.4	682	1	US-08-441-139-2 Sequence 2, Appl
5	2156	65.9	663	1	US-08-441-139-7 Sequence 7, Appl
6	2083	63.6	890	4	US-09-513-783A-174 Sequence 174, Appl
7	2077	63.5	646	1	US-08-441-139-14 Sequence 14, Appl
8	2065.5	63.1	679	1	US-08-441-139-5 Sequence 5, Appl
9	1938	59.2	643	3	US-08-797-358B-3 Sequence 3, Appl
10	1547.5	47.3	679	1	US-08-214-583-2 Sequence 2, Appl
11	1533	46.2	616	4	US-09-134-001C-3646 Sequence 3646, Ap
12	1495	45.7	642	4	US-09-207-388-15 Sequence 15, Appl
13	1495	45.7	662	4	US-09-207-388-16 Sequence 16, Appl
14	1492	45.6	642	4	US-09-207-388-13 Sequence 13, Appl
15	1492	45.6	657	4	US-09-252-991A-27358 Sequence 27358, A
16	1484	45.3	711	4	US-09-613-303-41 Sequence 41, Appl
17	1480.5	45.2	724	4	US-09-613-303-45 Sequence 45, Appl
18	1478.5	45.2	660	4	US-09-328-352-4932 Sequence 4932, Ap
19	1474	45.0	641	1	US-08-441-139-4 Sequence 4, Appl
20	1461.5	44.7	649	4	US-09-066-047-5 Sequence 5, Appl
21	1444	44.1	607	2	US-08-472-534-5 Sequence 5, Appl
22	1399.5	42.8	536	4	US-09-107-532A-6930 Sequence 6930, Ap
23	1378	42.1	539	4	US-09-198-452A-543 Sequence 543, App
24	1303.5	39.6	600	6	5240706-1 Patent No. 5240706
25	1297	39.6	562	4	US-09-207-388-14 Sequence 14, Appl
26	1255	38.3	253	4	US-09-581-001B-8 Sequence 8, Appl
27	1140.5	34.8	339	2	US-08-928-692-52 Sequence 52, Appl

28	1140.5	34.8	339	4	US-09-339-972-52 Sequence 52, Appl
29	1077	32.9	415	4	US-09-207-388-12 Sequence 12, Appl
30	990.5	30.3	623	4	US-09-282-991A-22906 Sequence 22906, A
31	973.5	29.7	620	4	US-09-328-352-7730 Patent No. 5196523
32	941	28.8	187	6	US-09-581-001B-7 Sequence 7, Appl
33	842	25.7	199	4	US-09-581-001B-7 Sequence 7, Appl
34	824	25.2	168	1	US-08-441-139-10 Sequence 10, Appl
35	818.5	25.0	315	1	US-08-257-073-7 Sequence 7, Appl
36	801.5	24.5	941	4	US-09-513-783A-172 Sequence 172, App
37	750.5	22.9	471	1	US-08-203-905B-2 Sequence 2, Appl
38	726.5	22.2	472	1	US-08-203-905B-14 Sequence 14, Appl
39	701	21.4	307	4	US-08-858-207A-481 Sequence 9, Appl
40	680.5	20.8	196	4	US-09-581-001B-9 Patent No. 5196523
41	642.5	19.6	129	6	US-08-770-301A-3 Sequence 3, Appl
42	607.5	18.6	999	2	US-09-175-581-3 Sequence 3, Appl
43	607.5	18.6	999	3	US-08-770-301A-1 Sequence 1, Appl
44	598	18.3	999	2	US-09-175-581-1 Sequence 1, Appl
45	598	18.3	999	3	US-09-175-581-1 Sequence 1, Appl

ALIGNMENTS

```

RESULT 1
US-08-441-139-11
: Sequence 11, Application US/08441139
: Patent No. 5773245
: GENERAL INFORMATION:
: APPLICANT: Wiltrop, Dr. Karl D.
: ATTORNEY/AGENT INFORMATION:
: TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
: TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
: NUMBER OF SEQUENCES: 20
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: NY
: COUNTRY: USA
: ZIP: 11530
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/441,139
: FILING DATE: 15-MAY-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/089,997
: FILING DATE: 06-JUL-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: DIGILIO, Frank S.
: REGISTRATION NUMBER: 31,346
: REFERENCE/DOCKET NUMBER: 8646
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 516-742-4366
: TELEFAX: 516-742-4366
: TELEX: 230 901 SANS UR
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 654 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-441-139-11
:
: Query Match 98.0%; Score 3209; DB 1; Length 654;
: Best Local Similarity 99.7%; Pred. No. 1.1e-249;
: Matches 623; Conservative 2; Mismatches 0; Indels 0; Caps 0;

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QY 2 EEDKKEDYGVTVGIDLGTTTSCVGFKNKGRVETIANDOGNRTTPSVAFTPGGERLIGDA 61
DB 20 EEDKKEDYGVTVGIDLGTTTSCVGFKNKGRVETIANDOGNRTTPSVAFTPGGERLIGDA 79
QY 62 AKNOLTSNPENTVPFPAKRLIGRTWMDPSVQODIKFLPKRVYKKTPIYQVDIGGQTKT 121
DB 80 AKNOLTSNPENTVPFPAKRLIGRTWMDPSVQODIKFLPKRVYKKTPIYQVDIGGQTKT 139
QY 122 FAPBEISAMVLTAKMETAEAYLGKKVTHAVVTPVPAYFNDQAOQATKDACTAGLVMRII 181
DB 140 FAPBEISAMVLTAKMETAEAYLGKKVTHAVVTPVPAYFNDQAOQATKDACTAGLVMRII 199
QY 182 NEPTAAALAYGDKREGEKNILVFDLGGSTFPVSLTTDNGVFEVYVANTGDTHLGCEPD 241
DB 200 NEPTAAALAYGDKREGEKNILVFDLGGSTFPVSLTTDNGVFEVYVANTGDTHLGCEPD 259
QY 242 ORVMEHFIKLYKKKTGDKVKNRAVOKLRREVEKAKRALSQHOARIEISFEGEDFS 301
DB 260 ORVMEHFIKLYKKKTGDKVKNRAVOKLRREVEKAKRALSQHOARIEISFEGEDFS 319
QY 302 ETLTTRAKFEELNMDLFRSTMKPVQKVLSDSLKSDIDEIVLVGGSTRIPKIQOLVKEFF 361
DB 320 ETLTTRAKFEELNMDLFRSTMKPVQKVLSDSLKSDIDEIVLVGGSTRIPKIQOLVKEFF 379
QY 362 NCKEESRGINPDEAAVAYGAAGVAGVLSGDDQDGLVDVCPDLTGIGIETVGVMTKLIPIR 421
DB 380 NCKEESRGINPDEAAVAYGAAGVAGVLSGDDQDGLVDVCPDLTGIGIETVGVMTKLIPIR 439
QY 422 NTVPVPTKKSQIFSTASDNQPTVTIKVYEGEERPLTDNHLGTFDLTGIPPARGVQPIEV 481
DB 440 NTVPVPTKKSQIFSTASDNQPTVTIKVYEGEERPLTDNHLGTFDLTGIPPARGVQPIEV 499
QY 482 TFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLLPBEIERMVANDAEKFAEEDKKLKERI 541
DB 500 TFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLLPBEIERMVANDAEKFAEEDKKLKERI 559
QY 542 DTRNLESAVSLKNOIGDKERLGSSEDEKTEKAEVEKIEWLESHQDADIEDPFAK 601
DB 560 DTRNLESAVSLKNOIGDKERLGSSEDEKTEKAEVEKIEWLESHQDADIEDPFAK 619
QY 602 KKELEIVOPITISKLYGSAGPPTGEEDTAE 632
DB 620 KKELEIVOPITISKLYGSAGPPTGEEDTSE 650

RESULT 2
US-08-441-139-16
; Sequence 16, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wiltup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,139
; FILING DATE: 15-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997

```

```

; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Digililo, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELETYPE: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 666 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-441-139-16

Query Match 96.8%; Score 3168; DB 1; Length 666;
Best Local Similarity 97.8%; Pred. No. 2,2e-246;
Matches 617; Conservative 11; Mismatches 3; Indels 0; Gaps 0;

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DB 32 EEDKKEDYGVTVGIDLGTTTSCVGFKNKGRVETIANDOGNRTTPSVAFTPGGERLIGDA 91
QY 62 AKNOLTSNPENTVPFPAKRLIGRTWMDPSVQODIKFLPKRVYKKTPIYQVDIGGQTKT 121
DB 92 AKNOLTSNPENTVPFPAKRLIGRTWMDPSVQODIKFLPKRVYKKTPIYQVDIGGQTKT 151
QY 122 FAPBEISAMVLTAKMETAEAYLGKKVTHAVVTPVPAYFNDQAOQATKDACTAGLVMRII 181
DB 152 FAPBEISAMVLTAKMETAEAYLGKKVTHAVVTPVPAYFNDQAOQATKDACTAGLVMRII 211
QY 182 NEPTAAALAYGDKREGEKNILVFDLGGSTFPVSLTTDNGVFEVYVANTGDTHLGCEPD 241
DB 212 NEPTAAALAYGDKREGEKNILVFDLGGSTFPVSLTTDNGVFEVYVANTGDTHLGCEPD 271
QY 242 ORVMEHFIKLYKKKTGDKVKNRAVOKLRREVEKAKRALSQHOARIEISFEGEDFS 301
DB 272 ORVMEHFIKLYKKKTGDKVKNRAVOKLRREVEKAKRALSQHOARIEISFEGEDFS 331
QY 302 ETLTTRAKFEELNMDLFRSTMKPVQKVLSDSLKSDIDEIVLVGGSTRIPKIQOLVKEFF 361
DB 332 ETLTTRAKFEELNMDLFRSTMKPVQKVLSDSLKSDIDEIVLVGGSTRIPKIQOLVKEFF 391
QY 362 NCKEESRGINPDEAAVAYGAAGVAGVLSGDDQDGLVDVCPDLTGIGIETVGVMTKLIPIR 421
DB 392 NCKEESRGINPDEAAVAYGAAGVAGVLSGDDQDGLVDVCPDLTGIGIETVGVMTKLIPIR 451
QY 422 NTVPVPTKKSQIFSTASDNQPTVTIKVYEGEERPLTDNHLGTFDLTGIPPARGVQPIEV 481
DB 452 NTVPVPTKKSQIFSTASDNQPTVTIKVYEGEERPLTDNHLGTFDLTGIPPARGVQPIEV 511
QY 482 TFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLLPBEIERMVANDAEKFAEEDKKLKERI 541
DB 512 TFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLLPBEIERMVANDAEKFAEEDKKLKERI 571
QY 542 DTRNLESAVSLKNOIGDKERLGSSEDEKTEKAEVEKIEWLESHQDADIEDPFAK 601
DB 572 DTRNLESAVSLKNOIGDKERLGSSEDEKTEKAEVEKIEWLESHQDADIEDPFAK 631
QY 602 KKELEIVOPITISKLYGSAGPPTGEEDTAE 632
DB 632 KKELEIVOPITISKLYGSAGPPTGEEDTAE 662

RESULT 3
US-09-632-538C-36
; Sequence 36, Application US/09632538C
; Patent No. 6440674
; GENERAL INFORMATION:
; APPLICANT: Mistra, Santosh et al.

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; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
; TITLE OF INVENTION: ITS USE
; FILE REFERENCE: 54359
; CURRENT APPLICATION NUMBER: US/09/632,538C
; CURRENT FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PRF
; ORGANISM: Pseudotsuga menziesii
; US-09-632-538C-36

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Query Match          70.7%; Score 2313.5; DB 4; Length 655;
Best Local Similarity 70.1%; Pred. No. 1,2e-177;
Matches 446; Conservative 89; Mismatches 96; Indels 5; Gaps 3;

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Db 20 EEAAL--LGVIGIDLTGTYSCVGVKNRVEIANDOGNRITPSVAFT--DTERLIGEA 76
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QY 62 AKNQLSNPENTVPDAKRLIGRTWNPDSVOODIKFLPFKYVEKTKPYIOVDIGGQYKT 121
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 77 AKNQAAMNPERVDFYKRLIGRKYEDKEVQDKILPEYKINKCKEPIQYKIDGKITKY 136
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QY 122 FAPBEISAMVLTMMKETAEAYLGKKVTHAVVTPAYFNDQORATKAGTIAGLNVARI 181
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Db 137 FSEBEISAMVLTMMKETAEAYLGKKVTHAVVTPAYFNDQORATKAGTIAGLNVARI 196
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QY 182 NEPTAAAIAYGLDKREGKNIILFVLDGGTFDVSLLTIDNGVEVATNGDTHLGSDPD 241
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Db 197 NEPTAAAIAYGLDKREGKNIILFVLDGGTFDVSLLTIDNGVEVATNGDTHLGSDPD 256
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QY 242 QRWMEHPIKIKKKTGDVKNRAVOKLRREVAKARALSSQQAIEIESFEDEGDFS 301
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 257 QRWMEHPIKIKKKTGDVKNRAVOKLRREVAKARALSSQQAIEIESFEDEGDFS 316
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QY 302 ETTLRAFEELNMDLFEFTMKPVOKVLESDDLKSDIDEIVLGVSTRIPIQOLVKEFF 361
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 317 EPLTRAFEEELNMDLFEFTMKPVOKVLESDDLKSDIDEIVLGVSTRIPIQOLVKEFF 376
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QY 362 NGKPSRGINPDEAVAYGAAGVLSGD--ODTGDVLVDVCPLTGLIETVGVMTKL 419
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Db 377 DGKEPNKGNVPDEAVAYGAAGVLSGD--ODTGDVLVDVCPLTGLIETVGVMTKL 436
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QY 420 PRMTVPFTKKSQFSTASDNPVTYIKVYGEERPLTDNHLGTFDLTGIPAPRGVPOI 479
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 437 PRMTVPFTKKSQFSTASDNPVTYIKVYGEERPLTDNHLGTFDLTGIPAPRGVPOI 496
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QY 480 EYTFEIDVNGILRYTAEDKGTGNKNKITINDONRLPPEIERMVNDAEKFAEDKKLKE 539
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Db 497 EYTFEIDVNGILRYTAEDKGTGNKNKITINDONRLPPEIERMVNDAEKFAEDKKLKE 556
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QY 540 RIDTRNELSYAYSLKNOIGDKERLGSSEDEKTEKAEVEEKIEVLESHODADIEDFK 599
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Db 557 KIDARNLLETYYVNMKSTINBKOLADKIDSEKKEIETAIKALEWLDNQSKEKDFE 616
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QY 600 AKKELEIYOPITISKIYGSAGPPPEEDTAELHH 635
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 617 EKLVEYAVGSPITIKOYERTKGSGSGGDEDEDSH 652
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RESULT 4

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US-08-441-139-2
; Sequence 2, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wiltup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:

```

```

; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; City: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,139
; FILING DATE: 15-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997
; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Digilio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-441-139-2

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Query Match          66.4%; Score 2174; DB 1; Length 682;
Best Local Similarity 67.1%; Pred. No. 2e-166;
Matches 430; Conservative 86; Mismatches 115; Indels 10; Gaps 6;

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QY 4 DKREDVGTGVIDLDTTSCVGFKNRVEIANDOGNRITPSVAFTPEGERLIGDAK 63
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Db 44 DVENYGTGVIDLDTTSCVGFKNRVEIANDOGNRITPSVAFT--DTERLIGDAK 102
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 64 NQLSNPENTVPDAKRLIGRTWNPDSVOODIKFLPFKYVEKTKPYIOVDIGGQYKT 123
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 103 NQVAANPQNTIFDLKRLIGLKYNDRSYOKDKLHPVNVKDKGPAYEVS--KEKAVFT 161
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 124 PEETISAMVLTMMKETAEAYLGKKVTHAVVTPAYFNDQORATKAGTIAGLNVARI 183
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 162 PEETISAMVLTMMKETAEAYLGKKVTHAVVTPAYFNDQORATKAGTIAGLNVARI 221
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 184 PTAAYIAYGLDKREGKNIILFVLDGGTFDVSLLTIDNGVEVATNGDTHLGSDPD 243
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 222 PTAAYIAYGLDKREGKNIILFVLDGGTFDVSLLTIDNGVEVATNGDTHLGSDPD 281
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QY 244 VMEHFILKYKKTGDVKNRAVOKLRREVAKARALSSQQAIEIESFEDEGDFS 303
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 282 IVROLIAFKKHHIDVSDNKKALAKLREKAEKAKKALSSQQAIEIESFEDEGDFS 341
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QY 304 LTRAKFEELNMDLFEFTMKPVOKVLESDDLKSDIDEIVLGVSTRIPIQOLVKEFF 363
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Db 342 LTRAKFEELNMDLFEFTMKPVOKVLESDDLKSDIDEIVLGVSTRIPIQOLVKEFF 401
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 364 KEPSRGINPDEAVAYGAAGVLSGD--ODTGDVLVDVCPLTGLIETVGVMTKL 423
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 402 KKASKGINPDEAVAYGAAGVLSGD--ODTGDVLVDVCPLTGLIETVGVMTKL 461
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 424 VPTKKSQFSTASDNPVTYIKVYGEERPLTDNHLGTFDLTGIPAPRGVPOI 483
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 462 APTKKSQFSTASDNPVTYIKVYGEERPLTDNHLGTFDLTGIPAPRGVPOI 521
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 484 EIDVNGILRYTAEDKGTGNKNKITINDONRLPPEIERMVNDAEKFAEDKKLKE 543
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 522 ALDANGILKVSATDKGKSEITITNDKGRLTQEEIDRVAEAEKASEASIKAVES 581
  |||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

```

QY 544 RNELESYASLKNQ1-GDKERLGSSEDEKTEMKEAVEKIEWLESH-ODADIEDFKAK 601
DB 562 RNLKENYASLKNQVNGD---LGKLEEDDEKTELDDAANDVLEWDDNEFAIADPDEK 638
QY 602 KKELEIVQPIISKLYGSA---GPPPTGEEDTAELHHHHH 639
DB 639 FESLSKAVPITSKLYGAGDGGADVDDEDDDDGDFEH 679

RESULT 5

US-08-441-139-7
; Sequence 7, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wiltup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,139
; FILING DATE: 15-MAY-1995
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997
; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DIGILLO, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELETYPE: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 663 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-441-139-7

Query Match 65.9%; Score 2156; DB 1; Length 663;

Best Local Similarity 67.5%; Pred. No. 5.5e-165;
Matches 425; Conservative 92; Mismatches 107; Indels 6; Gaps 6;

QY 2 EEDKEDGTGVTGIDLTGTYSCVGFKNRVEIITANDGQNRITPTSVAFTEGRLIGDA 61
DB 27 DQNSTESTGYVIGIDLTGTYSCVAAWKNRVEIITANDGQNRITPTSVAFTEGRLIGDA 85
QY 62 AKNQTSPNEPTVPDAKRLIGRTMNDPSVOODIKFLPFKVEKTKTPYIOVDIGGGQFT 121
DB 86 ANQNASNPENTIFPIKRLIGRKDEKTMADIKSEFPPIVADKRPPLVEVAV-GGKKKK 144
QY 122 FAPETISAMVLTKKMETAEAYIGKRVTHAVVTVPAYFNDQROATKDAAGTAGLNVMRI 181
DB 145 FPEEISAMILSKMKQTAAYIGKRVTHAVVTVPAYFNDQROATKDAAGTAGLNVRI 204
QY 182 NEPTAAATAYGLDKRGEKNTLVPLDGGTFPVSLITDNGVEVYATNGDTLGGEDFD 241

DB 205 NEPTAAATAYGLDKTDEKNTLVVYDLGGGTDFVSLSIDNGVEVYATNGDTLGGEDFD 264
QY 242 QVMEHFTIKLYKKTKGDKVRKNRAVQKLRREVEKAKRALSSQHOARIEIESFEYGEDFS 301
DB 265 NRVIYNTLARTYRKKNVNDVTKLAKMGKLRVEKANGTLLSQKSVRIEIESFFNGQFDS 324
QY 302 ETLTNAKFEELMDLFRSTMKPVQKVLSDSKSDIDEIVLVGSGTRIPKIOOLVKEFF 361
DB 325 ETLTNAKFEELMDLFRSTMKPVQKVLSDSKSDIDEIVLVGSGTRIPKIOOLVKEFF 384
QY 362 NGKPSRGINPDEAAVAGAVAGVLSGSDGDDOTGDIIVLDCVLTGTIEVYGMKRLPR 421
DB 365 -GKASKGINDPEAAVAGAVAGVLSGSDGDDOTGDIIVLDCVLTGTIEVYGMKRLPR 443
QY 422 NTVPYTKRSQIFSTASDNOPTVITKVEGERLTPKDNHLLGTFDITGIPAPRGPOLEV 481
DB 444 NPIPTKRSQIFSTASDNOPTVITKVEGERLTPKDNHLLGTFDITGIPAPRGPOLEV 503
QY 482 TFEIDVNGILRYTAEK-GTGKKNKITTNDQNRITPEIERMVDKFAEDKKLER 540
DB 504 TFEVDANGVLTSAVDKSGKPKRYIKNDGRLSEEDIERMVEAEFEAEEDKLER 563
QY 541 IDTRNELESYASLKNQ1GDKERLGSSEDEKTEMKEAVEKIEWLESH-ODADIEDFK 599
DB 564 IEARNTLENTAYSLKQFDDDEQLGKVDPEKQAVLDAVEDVAAEMLIHGDESKERE 623
QY 600 AKKELEIVQPIISKLYGAGPPPTGEED 629
DB 624 DQROKLDVAVHPTQKLY-SBGAGDADEED 652

RESULT 6

US-09-513-783A-174
; Sequence 174, Application US/09513783A
; Patent No. 6416959
; GENERAL INFORMATION:
; APPLICANT: Giuliano, Kenneth A.
; APPLICANT: Kapur, Ravi
; TITLE OF INVENTION: A System for Cell Based Screening
; FILE REFERENCE: 97-022-L1
; CURRENT APPLICATION NUMBER: US/09/513,783A
; CURRENT FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 174
; LENGTH: 890
; TYPE: PRT
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Description of Artificial Sequence: GFP-HSC70
US-09-513-783A-174

Query Match 63.6%; Score 2083; DB 4; Length 890;

Best Local Similarity 66.1%; Pred. No. 6.4e-159;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

QY 10 GTVVGIDLTGTYSCVGFKNRVEIITANDGQNRITPTSVAFTEGRLIGDAKQNLGNS 69
DB 248 GRAVGIDLTGTYSCVGFKNRVEIITANDGQNRITPTSVAFTEGRLIGDAKQNLGNS 306
QY 70 PENTVPDAKRLIGRTMNDPSVOODIKFLPFKVEKTKTPYIOVDIGGGQTFAPBEISA 129
DB 307 PNTVPDAKRLIGRTMNDPSVOODIKFLPFKVEKTKTPYIOVDIGGGQTFAPBEISA 365
QY 130 NVLTAKMETAEAYIGKRVTHAVVTVPAYFNDQROATKDAAGTAGLNVRIINPTAAI 189
DB 366 NVLTAKMETAEAYIGKRVTHAVVTVPAYFNDQROATKDAAGTAGLNVRIINPTAAI 425
QY 190 AYGLDKRGEKNTLVPLDGGGTDFVSLITDNGVEVYATNGDTLGGEDFDQVMEH 248
DB 426 AYGLDKRGEKNTLVPLDGGGTDFVSLITDNGVEVYATNGDTLGGEDFDQVMEH 485
QY 249 IKLYKKTKGDKVRKNRAVQKLRREVEKAKRALSSQHOARIEIESFEYGEDFSETLTKAK 308

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Db      486 IAEFKRHHKDISENKRAVRRLTACERAKRTLSSTQASIEIDSLYEGIDFYTSTRAR 545
Qy      309 FEELNMDLFRSTMKPYQKULESDLKSDIDEVLVGGSTRIPKIQOLYKEFNKPEPSR 368
Db      546 FEELNMDLFRSTMKPYQKULESDLKSDIDEVLVGGSTRIPKIQOLYKEFNKPEPSR 605
Qy      369 GINPDEAVAYGAAGVAGVLSGD--QDTGDLVLLDVCPLTGLTFTVGGVMTKLLPRTNVP 426
Db      606 SINPDEAVAYGAAGVAGVAGVLSGDSENVQDILLDVTPLSLGIEGTAGVMTVLKRTNTP 665
Qy      427 TKKSQIFSTASDNPVTITKVEGERPLTKDNHLLGTFDLTGIPAPRGVPOIEVFEID 486
Db      666 TKQOTFTTSDNPQVLLQVYEGERAMTKDNHLLGTFDLTGIPAPRGVPOIEVFEID 725
Qy      487 VNGILRVTAEDGCTGKNKITTITNDONRLTPEIEEMVNDAEKFAEDDKLKEIRIDTRNE 546
Db      726 ANGLINVASVADKSTGKENTITTNDGRSLKEDIEMVQAEKKAEDKORQVSSKNS 785
Qy      547 LESYAVSLKNQIGDKKLGKLSSEDEKTEMEKAVEKIEMLSHODADIEDFAKKKELE 606
Db      786 LESYAFNMKATYED-EKLOGKINDEKOKILDKCNITIMLDKNQTAKEEPEFHQKELE 844
Qy      607 EIVQPIITSLKLYSAGPPTG 626
Db      845 KVCNPITITKLYOSAGGMPG 864

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RESULT 7

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US-08-441-139-14
; Sequence 14, Application US/08441139
; Patent No. 5773245

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GENERAL INFORMATION:

```

; APPLICANT: Wiltup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA

```

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; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,139
; FILING DATE: 15-MAY-1995
; CLASSIFICATION: 435

```

```

; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997
; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELEX: 230 901 SANS UR

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; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 646 amino acids
; TYPE: amino acid
; TOPOLOGY: linear

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; MOLECULE TYPE: protein
; US-08-441-139-14

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Query Match      63.5%; Score 2077; DA 1; Length 646;
Best Local Similarity 66.0%; Pred. No. 1 2e-158;
Matches 409; Conservative 97; Mismatches 108; Indels 6; Gaps 5;

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Qy      10 GTVVGIDLTGTVSCVGFKNRVEIANDGNRITPSYVAFPEGEERLIGDAKNQJTSN 69
Db      4 GPAVIGIDLTGTVSCVGFQIKVEIANDGNRITPSYVAF-DTERLIGDAKNQVAM 62
Qy      70 PENTVDAKRLIGRTNNDVSVOODIFLPPKYVEKTKPIQVODIGGOTKTFAPEIISA 129
Db      63 PNTVDAKRLIGRRFDVAVQSDMKHWPVMVNDAGRPRVQVEY-KGETKSPYEPVSS 121
Qy      130 MVTFKKETAENALVGKKTAVVTPAYFADAOATKAGTAGLNVRIITEPTAAAI 189
Db      122 MVTFKKETAENALVGKKTAVVTPAYFADAOATKAGTAGLNVRIITEPTAAAI 181
Qy      190 AVGLDKREG-EKNILVFDLGGCTFDVSLTIDNGVEVVAATNGDTHLGGEDFQRMER 248
Db      182 AVGLDKRVGAEKRVNVLIFDLGGCTFDVSLTIEDGIFEVSTAGDTHLGGEDFQRMVNH 241
Qy      249 IKLYKKKTGDKVKKDRAVQKILREVEKAKRALSSQOARITESEFEGDFSETLTRAK 308
Db      242 IAEFKRHHKDISENKRAVRRLTACERAKRTLSSTQASIEIDSLYEGIDFYTSTRAR 301
Qy      309 FEELNMDLFRSTMKPYQKULESDLKSDIDEVLVGGSTRIPKIQOLYKEFNKPEPSR 368
Db      302 FEELNMDLFRSTMKPYQKULESDLKSDIDEVLVGGSTRIPKIQOLYKEFNKPEPSR 361
Qy      369 GINPDEAVAYGAAGVAGVLSGD--QDTGDLVLLDVCPLTGLTFTVGGVMTKLLPRTNVP 426
Db      362 SINPDEAVAYGAAGVAGVAGVLSGDSENVQDILLDVTPLSLGIEGTAGVMTVLKRTNTP 421
Qy      427 TKKSQIFSTASDNPVTITKVEGERPLTKDNHLLGTFDLTGIPAPRGVPOIEVFEID 486
Db      422 TKQOTFTTSDNPQVLLQVYEGERAMTKDNHLLGTFDLTGIPAPRGVPOIEVFEID 481
Qy      487 VNGILRVTAEDGCTGKNKITTITNDONRLTPEIEEMVNDAEKFAEDDKLKEIRIDTRNE 546
Db      482 ANGLINVASVADKSTGKENTITTNDGRSLKEDIEMVQAEKKAEDKORQVSSKNS 541
Qy      547 LESYAVSLKNQIGDKKLGKLSSEDEKTEMEKAVEKIEMLSHODADIEDFAKKKELE 606
Db      542 LESYAFNMKATYED-EKLOGKINDEKOKILDKCNITIMLDKNQTAKEEPEFHQKELE 600
Qy      607 EIVQPIITSLKLYSAGPPTG 626
Db      601 KVCNPITITKLYOSAGGMPG 620

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RESULT 8

```

US-08-441-139-5
; Sequence 5, Application US/08441139
; Patent No. 5773245

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GENERAL INFORMATION:

```

; APPLICANT: Wiltup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA

```

```

; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,139

```

FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-5

Query Match 63.1%; Score 2065.5; DB 1; Length 679;
Best Local Similarity 65.4%; Pred. No. 1.1e-157;

Matches 403; Conservative 90; Mismatches 118; Indels 5; Gaps 4;

OY 7 EDVGTAVGIDLTGYSCVGFKNRVELIANDOGNRIITPSYVAFTPGEGRLIGDAKNQL 66
DB 48 EDYGTGIDIGTGYSCVAVKNGKTELANDOGNRIITPSYVSTF-DERLIGDAKNQA 106
OY 67 TSNPENTVEDAKRLIGRTNDPVSQODIKLFPKVEKTKPYIQVDIGGQTYTFAEE 126
DB 107 ASNRKNTFEDIKRLIGLQNDPTVQORDIKLPTVYVNGKNPYEVETV-KGEKKEFTPEE 165
OY 127 ISAVVITKMKETAETAVYLGKKTTHAVVTPAYFENDAROATDAGTIGLNVRIINEPTA 186
DB 166 VSGHILGKMKQIAEDYLGKKTTHAVVTPAYFENDAROATDAGTIGLNVRIINEPTA 225
OY 187 AAIYAGLDKREGENIIVFDLGGGTFDVSLLTIDNGVEVATNGDTHLGGEDFDQRYME 246
DB 226 AAIYAGLDKTEDEHQIIVYDLGGGTFDVSLLTENGVEVATAGDTHLGGEDFDQRYME 285
OY 247 HFILYKTKTKDVKRKNRAVOKLRREYKAKRALSSOHAKRIEIESYEEDTSSETLTR 306
DB 286 HFAPLFOKKHDLDTYKNDKAKAKLREAEKAKRSLSSOTSTRIEIDSFENGIDFSETLTR 345
OY 307 AKPELNDLFRSTMKPQVKYLEDSDLKSDIDEIVLGSGSTRIPKIQOLYKEFNKKEP 366
DB 346 AKPELNLALPKRTLKLPYKVKYLGKSGLOKEDIDOLVVGSTRIPKVOQLLEKFFNKKA 405
OY 367 SRGINPDEAVAYGAAGVLSGDODTGLDVLLDVCPLTGLIGIEVGVMTKLIPRNTVP 426
DB 406 SKGINPDEAVAYGAAGVLSGEGVEDIVLLDYNALTLGIEETGCVMTPLIKRNTAP 465
OY 427 TKKQISTASDNGPTVTIKYEEGERPLTKDNHLLGTDLGIPRARGVQIETFEID 486
DB 466 TKKQISTASDNGKAAVQIYEEGERAVKDNHLLGNELSDIRAPRGVQIETFEID 525
OY 487 VNGILRYAEDKGCNKKRITITNDQNLTPPEIERMANDAKFAEEDKTKLERDITDNE 546
DB 526 ANGLITVATKDTGKSESITITANDKGLSODDIDRWAEAEAKYAEAKKAKSEANNT 585
OY 547 LESYAVSLKNOIGKELIGKLSDEKTEMEKAVEEKIEWLESHOD-ADIEDFAKKKEL 605
DB 586 FENFHVHYKNSVNG--ELAEIIMDEDEKETVLDNVNESLEWLESDVAEADPEKKASNF 643
OY 606 EEIYOPTISKLXGSG 621
DB 644 KESEVPIILAKASASOG 659

RESULT 9
US-08-797-358B-3

Sequence 3, Application US/08797358B

Patent No. 6268478

GENERAL INFORMATION:

APPLICANT: Adams, John

TITLE OF INVENTION: INTRACELLULAR VITAMIN D BINDING PROTEIN

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: Campbell & Flores LLP

STREET: 4370 La Jolla Village Drive, Suite 700

CITY: San Diego

STATE: California

COUNTRY: United States

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/797,358B

FILING DATE: 11-Feb-1997

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/011,491

FILING DATE: 12-FEB-1996

ATTORNEY/AGENT INFORMATION:

NAME: Campbell, Cathryn A.

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-CE 3165

TELECOMMUNICATION INFORMATION:

TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 643 amino acids

TYPE: amino acid

STRANDEDNESS: unknown

TOPOLOGY: unknown

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 3:

US-08-797-358B-3

Query Match 59.2%; Score 1938; DB 3; Length 643;
Best Local Similarity 61.7%; Pred. No. 1.8e-147;

Matches 379; Conservative 107; Mismatches 122; Indels 6; Gaps 5;

OY 13 VGIDIGTGYSCVGFKNRVELIANDOGNRIITPSYVAFTPGEGRLIGDAKNQLTSNEN 72
DB 9 VGIDIGTGYSCVGFKNRVELIANDOGNRIITPSYVAFTPGEGRLIGDAKNQLTSNEN 67
OY 73 TVPDAKRLIGRTNDPVSQODIKLFPKVEKTKPYIQVDIGGQTYTFAPEISAVYL 132
DB 68 TVPDAKRLIGRTNDPVSQODIKLFPKVEKTKPYIQVDIGGQTYTFAPEISAVYL 126
OY 133 TKMETAVYLGKKTTHAVVTPAYFENDAROATDAGTIGLNVRIINEPTAAIYAG 192
DB 127 SKMETAVYLGKKTTHAVVTPAYFENDAROATDAGTIGLNVRIINEPTAAIYAG 186
OY 193 LDKR-EGSKNLIVFDLGGGTFDVSLLTIDNGVEVATNGDTHLGGEDFDQRYMEHFIL 251
DB 187 LDRGAGGRNVLIIDFLGGGTFDVSLLTIDNGVEVATNGDTHLGGEDFDQRYMEHFIL 246
OY 252 YKKTKGDKVRKNRAVOKLRREVEKAKRALSSOHAKRIEIESFYEGEDFSETLRAKKEE 311
DB 247 FRRHKRDLKSNMKNRRLRPLRACERAKRTLSSTQATLEIDSLEFGVDFYSTRAPREE 306
OY 312 LMDLFRSTAKPQVKVLESDKLSDEIYLVGSTRIPKIQOLYKEFNKKEPSSKIN 371
DB 307 LMSDLFRSTLEPVEKGLDAKLDKAXIHDVYLVGSTRIPKIQOLYKEFNKKEPSSKIN 366
OY 372 PDEAVAYGAAGVLSGD--ODTGDVILDVCPLTGLIGIEVGVMTKLIPRNTVPPTK 429
DB 367 PDEAVAYGAAGVLSGD--ODTGDVILDVCPLTGLIGIEVGVMTKLIPRNTVPPTK 426


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Oy 129 AMLTIMKEAEAEVLYCKKYTHAVVVPVAFVFNDAQAQAKKAGCTTAGLVNMTINEPFAAA 189
Db 98 AMTLQNKSTAEYNTLADTVDKAVITVPAFVFNDEQAQAKKAGCTTAGLEVERITINEPFAAA 157
Oy 189 IATGLDKREGEKNILVFGLDGGCTFPVSLTITDNGFEVVAANGDTHLGGEDFDQRVMEHF 248
Db 158 IAVGLDKTEHTDQVVLVFDLGGCTFPVSLTELGDFEVLSTAGDNKLGCGDDFDVITDYL 217
Oy 249 IKLYKKKKTGCDVKKDKNRVAKQLREVEYERAKKALSSQAHRIEISFYEGED---FSETL 304
Db 218 VSEFEKKENGVDLSQDMALQRLKDAEAKKAKLSSVSTQSTLSPISAGEKPLHLEISL 277
Oy 305 TRAKFEBELNMDJFRSTPMKPVQKVLVLESDLSKKSDIDEIYLVGGSTRIPAIQOLKEFENGK 364
Db 278 TRSKFEBELNDSLJKKTMETPRLQALMDAGLSTSEIDEVILVGGSTRIPAVQGVAKKEI-GK 336
Oy 365 EBSRGJINPDEAVAYCAVAGVLSGDQDTGDLVLLDVCPLTLGIEYGVGWTAKLIPNTV 424
Db 337 EPHGVNAPBEVMAAGAIQAGVITG--DYKDVVLLDVPLSLGIEIMGRNNTLIERNT 394
Oy 425 VPKKKSQIFSTASDNGPVTYIKVYEGERPLTKDNHLNLTGFDLTGIPAPRGPVQIEVTFE 484
Db 395 IPIKSKQVYSTAADNQPAYVDIHVLOGERMAASDNKTLTRFQULTIDIPAPRKVPQIEVTFD 454
Oy 485 IDVNGJLIRVTAEDKGTGNKKITITINDQRLTPEEIERMVANDAEKFAEEDKKLERIDFR 544
Db 455 IDNNGJYVNTYAKDLGKNGKSONITLQSSSS--LSDEEIDIMVYDAENAEADKKRREEDVLR 513
Oy 545 NELESYASVSLKNDIGKEKIKGLKLSDEKETMEKVAVEKIKIMLSEH--ODAEIEPFAKKK 603
Db 514 NENDSLVFEQVEKRYKD---LGENISDEOK---KKAEBKKAOLKTALEGEDIDIDIKKKE 566
Oy 604 ELEEIYOPITISKLYGSA-----GPPPTGEDPT 630
Db 567 ELEKVIQELSAKVEYDQAQAQOQOGEEOSSQSS 599

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RESULT 12
US-09-207-388-15
; Sequence 15, Application US/09207388
; Patent No. 6497880
; GENERAL INFORMATION:
; APPLICANT: w19nlewsk1, Jan
; TITLE OF INVENTION: HEAT SHOCK GENES AND PROTEINS FROM
; TITLE OF INVENTION: NEISSERIA MENINGITIDIS, CANDIDA GLABRATA AND ASPERGILLUS
; TITLE OF INVENTION: FUMIGATUS
; FILE REFERENCE: 870109.411
; CURRENT APPLICATION NUMBER: US/09/207,388
; CURRENT FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-09-207-388-15

Query Match          45.7%; Score 1495; DB 4; Length 642;
Best Local Similarity 50.6%; Pred No. 7.7e-112;
Matches 320; Conservative 108; Mismatches 175; Indels 30; Gaps 12.

QY 12 VVGIDLGTTSCVGVFKNGREYIIANDGNRTFSSYAFTEGGERLTIGDAKNOLTSNPE 71
   ||||| ||: : ||: : : ||| :|: ||| :|: ||| :|: ||| :|: ||| :|:
DB 4 VIGIDLGTTNSCLAISENGQTKVIENMGARTTFSVIAIYLDGGELTVAPAKRQAVTNAX 63

QY 72 NTVEDAKRLIGRTWNDSVQODIKFLPFKVVYEKKT-KPYIOVDYIGGQTKTFAPBEISAM 130
   ||: ||||| :| |||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||: ||:
DB 64 NTIYAARKRLIGHKEFDEKVEVGRDIESMPREITKANNGDAWVK-----AQGKELSPQISAE 118

QY 131 VLTMKETAEAYLCKKTYHAAYTVPAFYNDQROQATKAGTITAGLNVKRIINEPTAAALA 190
   ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 119 VLRKKKEAAEAYLEKQYIEAVITVPAYFNDQSORQATKAGTITAGLNVKRIINEPTAAALA 178

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QY      191 IGLDKREG-EKXIIIVFDLGGGFEDVSLTIDN-----GVFEVATNDPTHGDEDFQRW 245
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      179 FGMODGNKKDRVAAYVDLGGGFEDJSTIEIAMI.DGKOF.EVLATNGDTHLGDEDFQRLL 238
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      246 EHFILKYKKTKCDVKRKNRAVOKIRREVEAKKRALSSOHORAIETESFEGED----- 299
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      239 DHIAEFKEGSDIKLDQMALORLEKAEMKAKIELSSQGQYEINLP--YTMDATGPKH 296
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      300 FSEITLRAKFEEELANDLFIRSTMKPAOKULEDSBLKSDIDEIYLVGSGSTRIPRIQOLVKE 359
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      297 LAMKTIRAKFESLVEDLTFRSIEPCKIALKDAGLSGTGDIDVDLYLVGQSMPKVQOBAVKA 356
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      360 FFNGEKSPRGINDPEAVANCAVNOGVLSGDDTGDTGLVD.CPLTGJLETGVGWMTKLI 419
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      357 FF-GCEPRKDVNPDEAVANGAALOGEVLSGR--SVLLLDPTPLSLGTIFMGWMTKLI 413
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      420 PRNTIVPTRKSQIFSTASDNOPVTYIKUYEGERPLTKDNHLGTFDLTGIPRAPRGVPQI 479
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      414 QKNTTIIPRKASQVFSTAEDNSAVTITHVLQGERERASANKSLQCFMIGDAPRPBPMQI 473
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      480 EYTFEIDVNGILRVAAEDKGCTGNKKITTITNQNR.LTPREIERMVADVDAEFAEDKKIKE 539
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      474 EYTFEIDANGILHVSAKDGCTGKCANITTIQSSG-LSEEIEIMVAVDAENAEADKKLTE 532
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      540 RIDTNEISYAVSLAKNOIGDKFKLGKLSSEDKTEMEKAVEBEKIEMLESHODADIEDFK 599
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      533 LVASNQAQDALIHVSKKSLAD---YGDKIDAEEKIEITALKEAVEAVKGDQDAKIID--- 586
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY      600 AKKKELEELVOPRIISKLYGA-CPPPTGEEDTA 631
        : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db      587 AKTEALGAASOKLGEENVYAQAQAEAOAGSEQA 619
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      RESULT 13
US-09-207-388-16
; Sequence 16, Application US/09207388
; Patent No. 6497880
; GENERAL INFORMATION:
; APPLICANT: Wisniewski, Jan
; TITLE OF INVENTION: HEAT SHOCK GENES AND PROTEINS FROM
; TITLE OF INVENTION: NEISSERIA MENINGITIDIS, CANDIDA GLABRATA AND ASPERGILLUS
; TITLE OF INVENTION: FOMIGATUS
; FILE REFERENCE: 870109.411
; CURRENT APPLICATION NUMBER: US/09/207,388
; CURRENT FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 662
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-09-207-388-16

      Query Match      45.7%; Score 1495; DB 4; Length 662;
      Best Local Similarity 50.6%; Pred. No. 8.1e-11;
      Matches 320; Conservative 108; Mismatches 175; Indels 30; Gaps 12.

      12 VVGIDLGTTSCVCGVGRVREIILANDGNGNITPSYAFPEGBERLIGDAKNOLTSNPE 71
      24 VIGIDLGTTNSCLAISSNGQTKVILNACGARTTSVIVLDGGLVAPAKKQAVTVNAK 83

      72 NTVEFARKRLIGRTWNPSPVODIKFLPKRVVEKKT-KPYIOWDIGCGGCTKTFAPETSAM 130
      84 NTIYAKRLIKHKPFEDKEVORDIEMPEIILKANNGDAWVK-----AQGKELSPQISAE 138

      131 VLTAKKETAEALVIGKRVTHAVTVTPAYFNDAQROATKQAGTIAGLNVRIINEPTAAIA 190
      139 VLRKKKEAAEAVLIGKVEAVITVPAYFNDSOPQATKQAGRIAGLDVAKRIINEPTAAIA 198

      191 YGLDKREG-EKNILVFDLGGTFDYSLLTQN----GVFEVYATNGDHLGGEEDQAVM 245
      199 FGMDGKKDKRVAVAYDVGGGTFEDISILEINLNDGKQFEVLANGTGDFLGGEDPDQRL 258

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Db 314 KHLNVAVSXAKLESLEYEDLVQRTIEPCRTALXKDLADGLVDIHEVILVGGOTRMLVQXTV 373

Qy 358 KEFFNGKEFSRCGINPDEAVATGAAYQAGVLSDDDTGDLVLDVCPYLTGLIEYGVYMK 417

Db 374 AEFF-GKEARKVDVNPDEAAVGAALQAGVAVLG--DVKDVLLDLVTPLTGLIETIGGVMTG 430

Qy 418 LIRNNTVVPATKKSQIFSTASDNOPTVTLKYVEGERPLTKNDHLHGLTGEDLGIIPAPGVP 477

Db 431 LIKKNTTITPKKSQVFTSTADNOGAVTTHVLQGEKKQAQKSKSGKFDLADIPAPGVP 430

Qy 478 QIEVTEPIDVNGILRTVAEDKCTGKNKITTINDQNRLLTPREIERMYNDAEKFAEERK 537

Db 491 QIEVTFDIDANGILHSAKDRTGKQGSYI-KASSGSLSEDEIQOMRDAEANNEERKF 549

Qy 538 KERIDTRNELESTAYSLKNOIGDKERLGSUSEDKETMEKAVEEIKTEMLESHODADIED 557

Db 550 EELTAARNRNGDGLVHATRKMI---TEAGDKATAEERKATIEKALGELAEAAVGDKAIEI- 605

Qy 598 FRAKKKELEIYQPIILSKYLSAGS----PPPTGEDTA 631

Db 606 --AKMNAISOASTPLQAQKMTAEQAQGEDAPQGEDAKA 641

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:38 : Search time 27.1274 Seconds

(Without alignments)
3564.123 Million cell updates/secTitle: US-09-806-955a-1
Perfect score: 3273
Sequence: 1 MEEDKKEDVGTGVGIDLGTT.....AGPPTEGEDTAEHHHHH 639Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 566894 seqs, 151307093 residues

Total number of hits satisfying chosen parameters: 566894

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Published_Applications_AA:*

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14: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*
15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
16: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	3216	98.3	654	10	US-09-919-172-54 Sequence 54, Appl
2	3216	98.3	654	11	US-09-919-039-260 Sequence 260, App
3	3182.5	97.2	653	9	US-09-759-010-2 Sequence 2, Appl1
4	2313.5	70.7	655	14	US-10-117-641-36 Sequence 36, Appl
5	2313.5	70.7	655	15	US-10-235-113-36 Sequence 36, Appl
6	2267.5	69.3	672	15	US-10-128-714-3107 Sequence 3107, Ap
7	2254.5	68.9	672	15	US-10-128-714-8107 Sequence 8107, Ap
8	2083	63.6	646	9	US-09-759-010-4 Sequence 4, Appl1
9	2083	63.6	646	10	US-09-870-759-43 Sequence 43, Appl
10	2083	63.6	646	11	US-09-935-642-16 Sequence 16, Appl
11	2083	63.6	646	11	US-09-919-039-11 Sequence 11, Appl
12	2083	63.6	646	12	US-09-751-708A-43 Sequence 43, Appl
13	2083	63.6	890	15	US-10-100-957A-174 Sequence 174, App
14	2039.5	62.3	641	9	US-09-759-010-3 Sequence 3, Appl1
15	2039.5	62.3	641	11	US-09-935-642-1 Sequence 1, Appl1

16	2039.5	62.3	641	11	US-09-919-039-146	Sequence 146, App
17	2033.5	62.1	649	12	US-10-259-165-214	Sequence 214, App
18	2033.5	62.1	649	12	US-10-259-165-350	Sequence 350, App
19	2030	62.0	651	14	US-10-108-605-75	Sequence 75, Appl
20	2028	62.0	641	11	US-09-919-039-79	Sequence 79, Appl
21	2020	61.7	641	12	US-10-316-253-93	Sequence 93, Appl
22	2019.5	61.7	622	15	US-10-132-556A-2	Sequence 2, Appl1
23	2014	61.5	642	10	US-09-761-534A-10	Sequence 10, Appl
24	2011	61.4	641	12	US-10-316-253-28	Sequence 28, Appl
25	1989.5	61.1	643	11	US-09-847-208-61	Sequence 61, Appl
26	1997.5	61.0	662	15	US-10-234-432-75	Sequence 75, Appl
27	1997.5	61.0	678	15	US-10-234-432-38	Sequence 38, Appl
28	1978	60.4	643	11	US-09-919-039-204	Sequence 204, App
29	1974	60.3	665	9	US-09-925-302-124	Sequence 724, App
30	1959	59.9	643	11	US-09-733-179A-11	Sequence 11, Appl
31	1927.5	58.9	651	15	US-10-234-432-77	Sequence 77, Appl
32	1924.5	58.8	649	15	US-10-234-432-33	Sequence 33, Appl
33	1860.5	56.8	628	15	US-10-234-432-35	Sequence 35, Appl
34	1716	52.4	541	15	US-10-234-432-37	Sequence 37, Appl
35	1502	45.9	610	9	US-09-815-242-5559	Sequence 5559, Ap
36	1502	45.9	618	9	US-09-815-242-12567	Sequence 12567, A
37	1502	45.9	618	9	US-09-815-242-12970	Sequence 12970, A
38	1502	45.9	638	9	US-09-815-242-10015	Sequence 10015, A
39	1502	45.9	638	9	US-09-815-242-13713	Sequence 13713, A
40	1502	45.9	638	15	US-10-181-654-10	Sequence 10, Appl
41	1501	45.9	637	9	US-09-759-010-1	Sequence 1, Appl1
42	1495	45.7	642	15	US-10-269-557-15	Sequence 15, Appl
43	1495	45.7	662	15	US-10-269-557-16	Sequence 16, Appl
44	1492	45.6	642	15	US-10-269-557-13	Sequence 13, Appl
45	1491	45.6	637	9	US-09-815-242-12058	Sequence 12058, A

ALIGNMENTS

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RESULT 1
US-09-919-172-54
: Sequence 54, Application US/09919172
: Patent No. US20020119463A1
:
GENERAL INFORMATION:
: APPLICANT: Turner, Mary
: APPLICANT: Farris, Mary
: TITLE OF INVENTION: PROSTATE CANCER MARKERS
: FILE REFERENCE: PA-0036 US
: CURRENT APPLICATION NUMBER: US/09/919,172
: CURRENT FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 60/222,469
: PRIOR FILING DATE: 2000-07-28
: NUMBER OF SEQ ID NOS: 102
: SOFTWARE: PERL Program
: SEQ ID NO 54
: LENGTH: 654
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc:feature
: OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1
US-09-919-172-54

Query Match      98.3%; Score 3216; DB 10; Length 654;
Best Local Similarity 100.0%; Pred. No. 1.4e-222;
Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 EEDKKEDVGTGVGIDLGTTTSCVGFKNRGREIIANDGNRITTSYAFTEGRLIGDA 61
      |||
DB      20 EEDKKEDVGTGVGIDLGTTTSCVGFKNRGREIIANDGNRITTSYAFTEGRLIGDA 79
      |||
QY      62 AKNOLTSMPENTVDARKLGRITWNDSVODDIFLPKVVETKTKPIYDIDGGGQTKT 121
      |||
DB      80 AKNOLTSMPENTVDARKLGRITWNDSVODDIFLPKVVETKTKPIYDIDGGGQTKT 139
      |||
QY      122 FAPFISAMVLTKKKETAEATLGRKVTAAVTVAYFNDARQATKAGTACIATNVRRI 181
      |||
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Db 140 FAPETISAMVLTMMKETAETAEVLTGKKTAVVTVPAVFNDQROATKDACTAGLNVMMRII 199
Qy 182 NEPTAAAIAYGLDKREGEKNILVFDLGGTDFVSLTTIDNGVFEVVAATNGDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGEKNILVFDLGGTDFVSLTTIDNGVFEVVAATNGDTHLGGEDFD 259
Qy 242 QRVMEHFTIKLYKKTKGKVRRDNRAVOKLRREVEKAKRALSQHOARIEISFYEGBDF 301
Db 260 QRVMEHFTIKLYKKTKGKVRRDNRAVOKLRREVEKAKRALSQHOARIEISFYEGBDF 319
Qy 302 ETLTFAKFEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGTPIPIQOLVKRFF 361
Db 320 ETLTFAKFEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGTPIPIQOLVKRFF 379
Qy 362 NGKPSRCINPDEAAVAGAAVAGVLSGDODTGDVLVLDVCPPLTIGIETVGVMTKLPR 421
Db 380 NGKPSRCINPDEAAVAGAAVAGVLSGDODTGDVLVLDVCPPLTIGIETVGVMTKLPR 439
Qy 422 NTVPPTKKSQIFSTASDNQPTVTIKVYGERPLTKDNHLLGTFDLTGIPPARGVPOLEV 481
Db 440 NTVPPTKKSQIFSTASDNQPTVTIKVYGERPLTKDNHLLGTFDLTGIPPARGVPOLEV 499
Qy 482 TFEIDVNGILRYTAEDKGTGNKNKITITNDQNRLLPPEIERMVNDAEKFAEEDKKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNKITITNDQNRLLPPEIERMVNDAEKFAEEDKKLKERI 559
Qy 542 DTRNELESYAVSLKNOIGDKERLGSSEDEKETEKAVEEKIEWLESHODADIEDFRKAK 601
Db 560 DTRNELESYAVSLKNOIGDKERLGSSEDEKETEKAVEEKIEWLESHODADIEDFRKAK 619
Qy 602 KKELEIYQPIITSKLYGSAGPPPTGEEDTAE 632
Db 620 KKELEIYQPIITSKLYGSAGPPPTGEEDTAE 650

RESULT 2

US-09-919-039-260
; Sequence 260, Application US/09919039
; Publication No. US20030108871A1
; GENERAL INFORMATION:
; APPLICANT: Kabet, Matthew R.
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
; FILE REFERENCE: PA-0035 US
; CURRENT FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: 60/222,113
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 401
; SOFTWARE: PERL Program
; SEQ ID NO 260
; LENGTH: 654
; TYPE: PRF
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1
US-09-919-039-260

Query Match 98.3%; Score 3216; DB 11; Length 654;

Best Local Similarity 100.0%; Pred. No. 1.4e-222;

Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 EDDKKEDVGTAVGIDLTGTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEPGERLIGDA 61
Db 20 EDDKKEDVGTAVGIDLTGTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEPGERLIGDA 79
Qy 62 AKNOLTSNPENTVPDAKRLIGRTWDPVQODIKFLPKRVVEKTKRPYIOVDIGGGQTKT 121
Db 80 AKNOLTSNPENTVPDAKRLIGRTWDPVQODIKFLPKRVVEKTKRPYIOVDIGGGQTKT 139
Qy 122 FAPETISAMVLTMMKETAETAEVLTGKKTAVVTVPAVFNDQROATKDACTAGLNVMMRII 181
Db 140 FAPETISAMVLTMMKETAETAEVLTGKKTAVVTVPAVFNDQROATKDACTAGLNVMMRII 199

Qy 182 NEPTAAAIAYGLDKREGEKNILVFDLGGTDFVSLTTIDNGVFEVVAATNGDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGEKNILVFDLGGTDFVSLTTIDNGVFEVVAATNGDTHLGGEDFD 259
Qy 242 QRVMEHFTIKLYKKTKGKVRRDNRAVOKLRREVEKAKRALSQHOARIEISFYEGBDF 301
Db 260 QRVMEHFTIKLYKKTKGKVRRDNRAVOKLRREVEKAKRALSQHOARIEISFYEGBDF 319
Qy 302 ETLTFAKFEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGTPIPIQOLVKRFF 361
Db 320 ETLTFAKFEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGTPIPIQOLVKRFF 379
Qy 362 NGKPSRCINPDEAAVAGAAVAGVLSGDODTGDVLVLDVCPPLTIGIETVGVMTKLPR 421
Db 380 NGKPSRCINPDEAAVAGAAVAGVLSGDODTGDVLVLDVCPPLTIGIETVGVMTKLPR 439
Qy 422 NTVPPTKKSQIFSTASDNQPTVTIKVYGERPLTKDNHLLGTFDLTGIPPARGVPOLEV 481
Db 440 NTVPPTKKSQIFSTASDNQPTVTIKVYGERPLTKDNHLLGTFDLTGIPPARGVPOLEV 499
Qy 482 TFEIDVNGILRYTAEDKGTGNKNKITITNDQNRLLPPEIERMVNDAEKFAEEDKKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNKITITNDQNRLLPPEIERMVNDAEKFAEEDKKLKERI 559
Qy 542 DTRNELESYAVSLKNOIGDKERLGSSEDEKETEKAVEEKIEWLESHODADIEDFRKAK 601
Db 560 DTRNELESYAVSLKNOIGDKERLGSSEDEKETEKAVEEKIEWLESHODADIEDFRKAK 619
Qy 602 KKELEIYQPIITSKLYGSAGPPPTGEEDTAE 632
Db 620 KKELEIYQPIITSKLYGSAGPPPTGEEDTAE 650

RESULT 3

US-09-759-010-2
; Sequence 2, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Sivaslava, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 653
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-759-010-2

Query Match 97.2%; Score 3182.5; DB 9; Length 653;

Best Local Similarity 99.4%; Pred. No. 3.5e-220;

Matches 627; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 2 EDDKKEDVGTAVGIDLTGTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEPGERLIGDA 61
Db 20 EDDKKEDVGTAVGIDLTGTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEPGERLIGDA 79
Qy 62 AKNOLTSNPENTVPDAKRLIGRTWDPVQODIKFLPKRVVEKTKRPYIOVDIGGGQTKT 121
Db 80 AKNOLTSNPENTVPDAKRLIGRTWDPVQODIKFLPKRVVEKTKRPYIOVDIGGGQTKT 139
Qy 122 FAPETISAMVLTMMKETAETAEVLTGKKTAVVTVPAVFNDQROATKDACTAGLNVMMRII 181
Db 140 FAPETISAMVLTMMKETAETAEVLTGKKTAVVTVPAVFNDQROATKDACTAGLNVMMRII 199
Qy 182 NEPTAAAIAYGLDKREGEKNILVFDLGGTDFVSLTTIDNGVFEVVAATNGDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGEKNILVFDLGGTDFVSLTTIDNGVFEVVAATNGDTHLGGEDFD 259

QY	242	ORWHEHFLIKYKKKTKGNDVRKNRVAOKLRREVEKKRRLSSOHOARIELESYEEDFS	301
Db	260	ORWHEHFLIKLKKKTKGNDVRKNRAVOKLRREVEKKRRLSSOHOARIELESYEEDFS	318
QY	302	ETLTPAKFEELNMDLFRSTYMKPVQVYLEDSDLKSDIDEIVLVGSGTRIPIQOLVKEFF	361
Db	319	ETLTPAKFEELNMDLFRSTYMKPVQVYLEDSDLKSDIDEIVLVGSGTRIPIQOLVKEFF	378
QY	362	NGKEPSRGINPDEAAVAGAAVAGVLSGDDTGDLVLDVCPLLTIGIETVGVMTKLIPR	421
Db	379	NGKEPSRGINPDEAAVAGAAVAGVLSGDDTGDLVLLHVCPLTLTIGIETVGVMTKLIPS	438
QY	422	NTVVPTRKSOIFESTASDNQPTVITIKVYBEEBRLTKDNHLGTFDGLGIPAPRGVQIEV	481
Db	439	NTVVPTRKSOIFESTASDNQPTVITIKVYBEEBRLTKDNHLGTFDGLGIPAPRGVQIEV	498
QY	482	TFEIDVNGILRTVAEDKGTGNKNKITITDQNRILPPEELIERMVANDAEKFAEEDKCLKERI	541
Db	499	TFEIDVNGILRTVAEDKGTGNKNKITITDQNRILPPEELIERMVANDAEKFAEEDKCLKERI	558
QY	542	DTRNLEBSYAVSLKNQIGDKERLGLKLSSEDEKTEMKAVEEKIEMLESHODADIEDFKAK	601
Db	559	DTRNLEBSYAVSLKNQIGDKERLGLKLSSEDEKTEMKAVEEKIEMLESHODADIEDFKAK	618
QY	602	KKLEELIYQPIISKLKYGSGPPPTGEEDTAEE	632
Db	619	KKLEELIYQPIISKLKYGSGPPPTGEEDTAEE	649

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RESULT 4
US-10-117-641-36
: Sequence 36, Application US/10117641
: Publication No. US20020194640A1
: GENERAL INFORMATION:
: APPLICANT: Mishra, Santosh et al.
: TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METHOD
: FILE REFERENCE: 62586
: CURRENT APPLICATION NUMBER: US/10/117,641
: CURRENT FILING DATE: 2002-04-03
: PRIOR APPLICATION NUMBER: 09/632,538
: PRIOR FILING DATE: 2000-08-04
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 36
: LENGTH: 655
: TYPE: PRT
: ORGANISM: Pseudotsuga menziesii
US-10-117-641-36

```

Query Match	70.7%;	Score 2313.5;	DB 14;	Length 655;
Best Local Similarity	-70.1%;	Pred. NO. 8.9e-158;		
Matches 446;	Conservative 89;	Mismatches 96;	Indels 5;	Gaps 3;

OY	2	EEDKDEDGYAVGIDLGTTYSGVGFENKNRVEI IANDOCNRITPSVAFLPEEBERLIGDA	61
Dd	20	EEAAK - LGTVIGIDLGTTHSCVGYKKNHVELI ANDOCNRITPSWAFL - DIERLIGE A	76
OY	62	AKNOLTSNPENTVPDAKRLLGRITWMDSPVOODIKELPFYVEREKTTPYIOVDIGGGOTKT	121
Dd	77	AKNQAMMPERTVPFVKRLGRKKRYEDEQOKDILKLPRYIVNKDGSPYIOVKLRDEIKV	136
OY	122	FAPETISAMVLTKMKETAAYLGKKVTYHAVVVYPVAFENAOBATOACGTADAGTIAALNMRII	181
Dd	137	FSPEETISAMILLKMKETAASYGRKIKDAVVVPAYFNBOBATOATDACYTIALNMARI I	196
OY	182	NEPTAATAIAYGLDKREGEKNILVFDLGGTFDVLSLTINDNGVEVYATNGDIHLGEGDFD	241
Dd	197	NEPTAATAIAYGLDKREGEKNILVYDLGGTFDVLSILTINDNGVEVYSTSGDTIHLGEGFD	256
OY	242	ORVMHFIFLKLYKKKRGDOVKRDNRAPOKLRBEFEAKRRALLSOSHARIELESYEGBDFS	301
Dd	257	ORVMDFIFLKLYKKKHNDISKDRNALRGTLRRBEREKRRALLSOHOVRVELESLFDGDVFS	316

Qy	302	CTLPFAKKEELNMDLFRSMKPVOKVULEDSOLKSSIDIEIVGSGSTRIPKIOOLYKEEP	361
Dd	317	EPLTARREBELMMDJFKKTLGPKKALDANLOKTEINELVAVGSGSTRIPKVOOJLKLDE	376
Qy	362	NGKERSRINPDEAVAYGAAYGAVLSGD--ODTDVLVLDVCPPLTGIGETVGVMTKLI	419
Dd	377	DGKEENKGVNDEAVAYGAAYGAGGLISGEGCPEKTDILLDVAPLSLGIEYGVGWTKLI	436
Qy	420	PRNTVVPKQSIFSTASDNOPTVYIKVYEGSRPLTKDNHLGSTDPLTIPAPRGVPOI	479
Dd	437	PRNTVYIPKKSQVFTYDQOQTVTSIKVYEGSRSLTKDCELRGLKFDLSGIPAPRGVPOI	496
Qy	480	EYTFEIDVNGIIRVTAEDKGTGNKKKITTNDQNRILPREIERPYNDAEKAFAEDKKLKE	539
Dd	497	EYTFEVDANGIINVAEADKGTGKTEKITTNDQNGRLSOREIERPMYKAEAEFAEEDKKVD	556
Qy	540	RIDPFNELSYAYSILKNQIDGKEXKLGKSSDCKEMEVAEKEITMLESHDADLDEDK	599
Dd	557	KIDANNLETTYVYNNKSTINERKDLADKIDSDEKKEIEFAIKFALEMWLDNDSAEKEDFE	616
Qy	600	AKKKELEIYVPIISKLVSAGRPPTGEEDTAEHLH	635
Dd	617	EKLKEVEAVCSPIIKOYIEKTOGGSSGGDDEBDSH	652

```

RESULT 5
US-10-235-113-36
; Sequence 36, Application US/10235113
; Publication No. US2003010074BA1
; GENERAL INFORMATION:
; APPLICANT: Misra, Santosh et al.
; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BLINDING PROTEIN GENE AND M
; TITLE OF INVENTION: ITS USE
; FILE REFERENCE: 62667
; CURRENT APPLICATION NUMBER: US/10/235,113
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 10/117,641
; PRIOR FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 09/632,538
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PRT
; ORGANISM: Pseudotsuga menziesii
US-10-235-113-36

```

Query Match	70.7%;	Score 2313.5;	DB 15;	Length 655;
Best Local Similarity	70.1%;	Pred. NO. 8.9e-158;		
Matches 446;	Conservative 89;	Mismatches 96;	Indels 5;	Gaps 3;

[illegible]


```
QY 2 EEDK-KEDVGVVYIDLGTTTSCVGVFKNGRVEIIANDOGNRIITPSYAFTEPGERLIGD 60
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db EEDSVQENGTAYIGIDGTTTSCVGVNQNGKVEIIANDOGNRIITPSYAFTEDE-EKLVD 98
QY 61 AAKNQITSPENTVPFAKRLIGRTWMDPSVOODIKFLPKRYVEKTKRPYIOVDIGGQIK 120
    |||||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db AAKNOASNPRTIIFIRRLIGRKRFDDKOVOKDAKNFPYKVVNKDDKPYVAKVEV-KKSPK 157
QY 121 TFAPEEISAMVLTKMETAEAYIGKRVTHAVVTPVAFYFNDAROATKADAGTAGLNVMR 180
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db ITPPEVSAMVNLGKMDIAGYLIGKRVTHAVVTPVAFYFNDAROATKADAGTAGLNVLRV 217
QY 181 INEPTAAIAYLGDKRREGKNILVFDLGSGTFDVSLLTIDNGVEEVATNGDTHLGEDF 240
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db VNEPFAALAYGIDKGDGRMVLYVDLGSGTFDVSLLTIDNGVEFVLATAGDTHLGEDF 277
QY 241 DQRYMHFIKLYKKTKGKDYRKDNRAVOKLRREVEAKAKALSSQHOARIEISFYGEDF 300
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db DIRVMDYFYKQYKKNKNVDSKDLKAMGKLKREVEAKAKRTLSSQMSRTRIEISFHNGEDE 337
QY 301 SETLTFRAKFEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGSTRIPKIOOLYKE 360
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db SETLTFRAKFEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGSTRIPKIOOLYKE 397
QY 361 FNGKEPSRGINDPAAVAGAAVQAVGLSGDODTGLVLLDVCPLTGLIETVGVMTKLIP 420
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db FNGKAKSKGINDEAVAFGAAGVGLSGEETGADVLLDVNPGLTGLIETVGVMTKLIP 457
QY 421 RNTVYTKSQIFSTASDNOPTVTIKVYGERPLTKDNHLGTFDLTGIPAPRGVPOIE 480
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db RNTVYTKSQIFSTASDNOPTVTIKVYGERPLTKDNHLGTFDLTGIPAPRGVPOIE 517
QY 481 VFEEDVNGILRYTADKGTGNKKNKTTITNDONRLTPEIEEMVNDAEKFAEDDKRLKER 540
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db VSEFDLANCILKVASDKGTGAESTITITNDONRLTPEIEEMVNDAEKFAEDDKRLKER 577
QY 541 IDTRNLESYAYSLKNOIGDKELGKLSSEDEKETEVEKKEIEMLESH-ODADIEDPK 599
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db IEARNLEENYAFSLKNOVNDENGLOGQIDEDDKQITLDAVKEVTDWLENDNAATATEDFE 637
QY 600 AKKELEEVOPRISKLYSAGPPPTGDEDTAEIH 634
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 638 EOKEOLSNVAYPTSKLYGSA--PADEDEPSGH 669

RESULT 8
US-09-759-010-4
; Sequence 4, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Srtvastava, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759, 010
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-010-4

Query Match 63.6%; Score 2083; DB 9; Length 646;
Best Local Similarity 66.1%; Pred. No. 3.1e-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;
```

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QY 10 GTVVGIDLGTTTSCVGVFKNGRVEIIANDOGNRIITPSYAFTEPGERLIGDAKKNOLTS 69
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 4 GRAVYGIDLGTTTSCVGVFOHGKVEIIANDOGNRIITPSYAFTEPGERLIGDAKKNOLTS 62
QY 70 PENTVFDARLIGRTWMDPSVOODIKFLPKRYVEKTKRPYIOVDIGGQIKTFAPAEISA 129
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Db 63 PNTVFDARLIGRTWMDPSVOODIKFLPKRYVEKTKRPYIOVDIGGQIKTFAPAEISA 121
QY 130 MVLTKKETAALATGKRVTHAVVTPVAFYFNDAROATKADAGTAGLNVARIINEPTAAAI 189
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 122 MVLTKKETAALATGKRVTHAVVTPVAFYFNDAROATKADAGTAGLNVARIINEPTAAAI 181
QY 190 AVGLDREG-EKNILVFDLGSGTFDVSLLTIDNGVEEVATNGDTHLGEDFQDQRYMEHF 248
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db AVGLDREG-EKNILVFDLGSGTFDVSLLTIDNGVEEVATNGDTHLGEDFQDQRYMEHF 241
QY 249 IKLYKKTKGKDYRKDNRAVOKLRREVEAKAKALSSQHOARIEISFYGEDFSESETLTFRAK 308
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db IAEFKRKHKKDISENKRAVRLRTACERAKRTLSSQMSRTRIEISFYGEDFSESETLTFRAK 301
QY 309 FEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGSTRIPKIOOLYKEFNGKEPSR 368
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db FEELNMDLFRSTMKPVOKVLESDSLKSDIDEIYLVGSGSTRIPKIOOLYKEFNGKEPSR 361
QY 369 GINPDEAVAGAAVQAVGLSGD--ODTGLVLLDVCPLTGLIETVGVMTKLIPRTVYV 426
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db GINPDEAVAGAAVQAVGLSGD--ODTGLVLLDVCPLTGLIETVGVMTKLIPRTVYV 421
QY 427 TKKSQIFSTASDNOPTVTIKVYGERPLTKDNHLGTFDLTGIPAPRGVPOIEVTFEID 486
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db TKOTQTFEYTSNOQPVLLQVYGERAMPTKDNHLGTFDLTGIPAPRGVPOIEVTFEID 481
QY 487 VNGILRYTADKGTGNKKNKTTITNDONRLTPEIEEMVNDAEKFAEDDKRLKERITRNE 546
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db ANGLINVASVDKSTGKKNKTTITNDONRLTPEIEEMVNDAEKFAEDDKRLKERITRNE 541
QY 547 LESYAYSLKNOIGDKELGKLSSEDEKETEVEKKEIEMLESHODADIEDFAKKKELE 606
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db LESYAYSLKNOIGDKELGKLSSEDEKETEVEKKEIEMLESHODADIEDFAKKKELE 600
QY 607 EIVOPRISKLYSAGPPPTG 626
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 601 KVCNPITITKLYSAGGMPG 620
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RESULT 9
US-09-870-759-43
; Sequence 43, Application US/09870759
; Patent No. US20020177551A1
; GENERAL INFORMATION:
; APPLICANT: TERMAN, David S
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT OF NEOPLASTIC DISEASE
; FILE REFERENCE: 870759
; CURRENT APPLICATION NUMBER: US/09/870, 759
; CURRENT FILING DATE: 2002-01-14
; PRIOR APPLICATION NUMBER: US 60/208, 128
; PRIOR FILING DATE: 2000-05-30
; NUMBER OF SEQ ID NOS: 166
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-870-759-43
```

```
Query Match 63.6%; Score 2083; DB 10; Length 646;
Best Local Similarity 66.1%; Pred. No. 3.1e-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;
```

```
QY 10 GTVVGIDLGTTTSCVGVFKNGRVEIIANDOGNRIITPSYAFTEPGERLIGDAKKNOLTS 69
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 4 GRAVYGIDLGTTTSCVGVFOHGKVEIIANDOGNRIITPSYAFTEPGERLIGDAKKNOLTS 62
QY 70 PENTVFDARLIGRTWMDPSVOODIKFLPKRYVEKTKRPYIOVDIGGQIKTFAPAEISA 129
    |||:::|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 63 PNTVFDARLIGRTWMDPSVOODIKFLPKRYVEKTKRPYIOVDIGGQIKTFAPAEISA 121
QY 130 MVLTKKETAALATGKRVTHAVVTPVAFYFNDAROATKADAGTAGLNVARIINEPTAAAI 189
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Db      122  MVLTMMKKEIAEAVLGKTVTNMNVVTPAVFENDSQATRKDAGTITAGLVNLTIIINEPAAAI 181
Qy      190  AYGLDKREG-EKNILVFDLGGSTEDVSLITLDNGVEFVATNGDTHLGSDPQRYMEHF 248
Db      182  AVGLDKRYGAERNVLIFDLGGSTEDVSLITLEDGIFEYKSTAGDTHLGSDPQRYMNHF 241
Qy      249  IRLYKKKTKGDYRKNNRAVOKLREVEKAKRALSSOQARLEISPEEGEDFSETTLTRAK 308
Db      242  IAEFRKKHKKDISENKRAVRRLRTACEAKRTLSSQASLEIDSLYEGIDFTYTSITTRAK 301
Qy      309  FEELNMDLFRSTMKPVQKVLIEDSLDKSDIDEIYLVGSGTRIPKIQOLVKEFNGKEPSR 368
Db      302  FEELNMDLFRGLDPEVKALRDQKLDKSGQIHDIYLVGSGTRIPKIQOLDPFGNKEKLK 361
Qy      369  GINPDEAVAVGAAYOAGVLSGP--QDPTDVLVLDVCPILGIEIVGSGVMKLLPNTVVP 426
Db      362  SINPDEAVAVGAAYOAILSGCKSENVDLLLLVTPLSLGIETAGSGVMVLLIKRNTTIP 421
Qy      427  TKKSQFSTPASNOPTVTIKVEYGEGRPLTTKNNHLLGTFDLGIPAPRGVPOIEVPEID 486
Db      422  TKQYQFTFTYSDNGQGVLIQYVEGSRAMTKNNLLGKRFELTGIPAPRGVPOIEVFPDID 481
Qy      487  VNGILRVTAEDKGTGKNKKITTTDQNLTPPEIERMVNDAEKAFAEDKKLKERIDTRNE 546
Db      482  ANGLINVASVDKSTGKNNKITTTNDKGRLSKEDIERMVQEAERKAKADEKQORVSSKNS 541
Qy      547  LESYASLSLKNQIDGKEKLOGKSSSDKRTMKNAVEKEIEMLESQODDIDDFAKKKELE 606
Db      542  LESYASLAKMAYVED-EKLOGKINDDKOKILDKCNEIIMLDKNQTAKEKEFEHQOKELE 600
Qy      607  EIYQPIISRLYGSAGPPTG 626
Db      601  KVCNPIITTKLYQSAGSGMPCG 620

RESULT 10
US-09-935-642-16
: Sequence 16, Application US/09935642
: Publication No. US20030044795A1
GENERAL INFORMATION:
APPLICANT: BYRJALSEN, Inger
APPLICANT: LARSEN, Peter
APPLICANT: STEPHEN, John
TITLE OF INVENTION: Biochemical Markers for the Human
FILE REFERENCE: 8960-014
CURRENT APPLICATION NUMBER: US/09/935,642
CURRENT FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: PCT/GB97/02394
PRIOR FILING DATE: 1997-09-05
PRIOR APPLICATION NUMBER: PCT/GB97/0132.8
PRIOR FILING DATE: 1997-04-08
PRIOR APPLICATION NUMBER: PCT/GB9618600.2
PRIOR FILING DATE: 1996-09-06
NUMBER OF SEQ ID NOS: 16
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 16
LENGTH: 646
TYPE: PRT
ORGANISM: Homo sapiens
US-09-935-642-16

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Query Match 63.6% Score 2083 Db 11 Length 646:
Best Local Similarity 66.1% Pred No. 3,1e-141:
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5.

QY      10 GTVAGIDGTTVCVGVEKNGRVELLIANDQGNRIITPSVAETPEGEERLIGDAKKQLTNSN 69
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db       4 GPAYGIDGTITSCGVGFGRHKEIILANDQGNRTTPSVAFI -DTERLIGDAKKQNVAMN 62
          | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QY      70 PENTVFDAKRLLIGRWMDPVSVOODIKFLPFKVEYEKKTKPTFYIOVDIGGGQTIFAPEEISA 129
          | | | | | | | | | | : | | | | | | | | | | | | | | | | | | | | | | |

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Db	63	PTNIVFPAKRLIGRFPDAAVJOSDMKHMPEVNVDAADRPVQVEY - KGERKSFYEEVSS	121
Qy	130	MVLTKMETHAEALYIGKRVTHAVYVPRVFPNDQAQAKDKAGTLAGLWMHININPTAAI	189
Db	122	MVLTKMEIEAEALYIGKRVTHAVYVPRVFPNDQAQAKDKAGTLAGLWVLIINPTAAI	181
Qy	190	AYGDKRREG-EKNLVFDDGGGCFDVSILFTDNCVFEEVAVNCGDTHLGGEDFODRVNEH	248
Db	182	AYGDKKVGAEARNVLITDLOGGTFDVSILITIEDGIFEVKSTAGDTHLGGEDFODRVNHF	241
Qy	249	IKLYKKRTGDKVRKDNRAVOKLRREVEKAKKALSSOHAQRIEISFYEGEDFSETLRAK	308
Db	242	IAEKRKKHKNDISENKRAVRRLRACERAKTSSSQASIEIDSLVEGIDFVYSITRAR	301
Qy	309	FEELNMDLFRSTMKPVOKVLEDSOLKSSDIDELVVGSGTRIPKIQOLVKEFNKGEPSR	368
Db	302	FEELNADLFRCTDLPVEKALRDALKDSQIHDIYLVGGSSTRIPKIQKLLDDFFNGKEINK	361
Qy	369	GINDEAVAGAAYQAGVLSGD--QDNGDVLVDVCPULGTIEVVGVMKLLIRNRVVP	426
Db	362	SINDEAVAGAAYQAAVAILSGDKSENVODLLLDVTPISLGIETAGGVMVLIKRNTPP	421
Qy	427	TKKSOIFSTASDNOPTVYIKVYEGEERPLTKDNHLLGTFDDLGPAPARGVQIIEVTEID	486
Db	422	TKQIQTFTTYSDNOPGULIOYEEERAKMTDNMLKGFELTGIPPARGVQIIEVTDID	481
Qy	487	VNGILRYTAEDCKGTGNKKRITITDNOHRLPEEIERMVANDAEKFAEDBKILKERIDTRNE	546
Db	482	ANGILRYSAVDKSTGKEKRIKITITDNGRLSKIEDIERMVQAEKFKADEKQDRVSSNS	541
Qy	547	LESTAFNKAATVED-EKLOGKINDEEDOKIUDCKNEIINMLDKNQTAEKEFEHEQOKELE	600
Db	607	EIVQPIISKLVSAGSPPTG 626	
Qy	601	KVCNPIITKVLQASAGMGCG 620	

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RESULT 11
US-09-919-039-11
; Sequence 11, Application US/09919039
; Publication No. US20030108871A1
; GENERAL INFORMATION:
; APPLICANT : Kaser, Matthew R.
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURED
; FILE REFERENCE: PA-0035 US
; CURRENT APPLICATION NUMBER: US/09/919,039
; CURRENT FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: 60/222,113
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 401
; SOFTWARE: PERL Program
SEQ ID NO 11
LENGTH: 646
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: Incyte ID NO. US20030108871A1 1545176C01
US-09-919-039-11

Query Match          63.6%; Score 2083; DB 11; Length 646;
Best Local Similarity 66.1%; Pred.No.3.le-141;
Matches 410; Conservative 97; Mismatches 107; Indels 6; Gaps 5;

QY      10 GTVAGIDIGTGYSCVGVFKNGRVEIANDGGRNRTPTSYAFTPGEERLIGDAKNQLTSN 69
        | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB       4 GPACVIDIGTGYSCGVGFQHGKVELIANDDGNRTPTPSYAFT-DTERLIGDAKNQVAMN 62

QY      70 PENIVFDKKRLIGRTWRNDSPYODIKFLPFKVYEKKTKPYLOVDIGGGQTTFAPPEEISA 129
        | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB      63 PTNVFDDKKRLIGREDDAVVQSDMKWPEMVAVNDAGRPKQVLEL-KETISSTPPEEVSS 121

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Db      426  AYGDKKVGAERNVLIFDLGGGTFDVSILTTEDGIFEEVKSAGACTHLLGDEDFDNRMVNH 485
Oy      249  IKLYKKKTGKDVRKDNRAVOKLARREVEKAKRALSQHOARIESFEYEGEDFSETLRPAK 308
Db      486  IAEKRKKKKNDISENKAVERLRFTACERAKRTLSSSQASLEIDSLVGGIDFYISIFAR 545
Oy      309  FEELNMDLFRSTKMPVQKVLVEDSDLSKSDIDEIYLVGGSTRIPIKIQLVKEFNKREPSR 368
Db      546  FEELNADLFRCITLDPVEKALDKLSQIHDIVLVGGSTRIPIKIQLODFENGKELNK 605
Oy      369  GINDEAVAYGAQAQAVLSDG--ODTGDLVLDVCPLTGIEFVGVMTLIRNTPVP 426
Db      606  SINDEAVAYGAQAQAVLSDGSKBNODLLDLVTLGIEFVGVMTLIRNTPVP 665
Oy      427  TRKSQIFSTASDNQPTVIKYEGERPLTKDNHLLGTFDLGIPPARGVQIETVEID 486
Db      666  TKQOTFTTYSNDQPGVLIOYEEGERAMTKNNLLGKRELGIIPPARGVQIETVEID 725
Oy      487  VNGILRVTAEDKGTGNKKKITTNDQNRLPPEETIERMVNDAEKFAEDDKLKERIDTRNE 546
Db      726  ANGLINSAVDKSTCKENKITTNDKGRLSKEDIERMVQEAKEYKADEKORDKVSXNS 785
Oy      547  LESAAYSILKNOIGKEKLGKLSSEDKETMEKAVEKEIEMLESQODADIEDFKAKKELE 606
Db      786  LESTAFAKATVED-EKLGKINDEKOKILDKCNEIITNMLDKNOTAKEEPEHQQELE 844
Oy      607  EIVQPIISKLYGSAGPPPTG 626
Db      845  KVCNPIITIKLYQSAGMPG 864

RESULT 14
US-09-759-010-3
; Sequence 3, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: STRIASCARA, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759, 010
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-010-3

Query Match      62.3%; Score 2039.5; DB 9; Length 641;
Best Local Similarity 64.4%; Pred. No. 4.1e-138;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

Oy      13  VGIDGTTTSCVGVFKNGRVEIANDQGNRTTPSVAFTPGGERLIGDAKNQLTSPEN 72
Db      7  IGIDGTTTSCVGVFGHKGVEIANDQGNRTTPSVAFTPGGERLIGDAKNQVALNQN 65
Oy      73  TVPDAKRLIGRTWMDPSVQODIKFLPKVVEKKTPIYQVDIGGQRTKTPAPEISAVL 132
Db      66  TVPDAKRLIGRKFQDPVQSDMKHMPFQVINDGKPKQVSY-KGETAFAPPEEISSAVL 124
Oy      133  TKMKEIAYLGKKTVAHVAVTPAYFENDQROATKDACTAGLNVMTIINEPTAAIAYG 192
Db      125  TKMKEIAYLGKKTVAHVAVTPAYFENDQROATKDACTAGLNVMTIINEPTAAIAYG 184
Oy      193  LDKR-EGEKNILVDFLGGTDFVSLTTIDNGVEFVAVATNGDTHLGGEDFDQVMEHFKL 251
Db      185  LDRGCKGRNVLIIFDLGGTDFVSLTTIDNGIPEVKATAGDTHLGGEDFDRLNVHFEVE 244
Oy      252  YKKKTGKVRKDNRAVOKLARREVEKAKRALSQHOARIESFEYEGEDFSETLRPAKPE 311
Db      245  FKRRKKKDIQNKRAVRLRFTACERAKRTLSSSQASLEIDSLVGGIDFYISITARPEE 304
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Oy      312  LNMDLFRSTKMPVQKVLVEDSDLSKSDIDEIYLVGGSTRIPIKIQLVKEFNKREPSGIN 371
Db      305  LCSDFLSTLEPVEKALDKADKAQIHDVLVGGSTRIPIVQKLTLODFNGRDLNKSIN 364
Oy      372  PDEAVAYGAQAQAVLSDG--ODTGDLVLDVCPLTGIEFVGVMTLIRNTPVPVP 429
Db      365  PDEAVAYGAQAQAVLSDGSKBNODLLDLVTLGIEFVGVMTLIRNTPVP 424
Oy      430  SQIFSTASDNQPTVIKYEGERPLTKDNHLLGTFDLGIPPARGVQIETVEIDVNG 489
Db      425  TQITFTTYSNDQPGVLIOYEEGERAMTKNNLLGKRELGIIPPARGVQIETVEIDANG 484
Oy      490  ILRVTAEDKGTGNKKKITTNDQNRLPPEETIERMVNDAEKFAEDDKLKERIDTRNELES 549
Db      485  ILVNTATDKSTGKANKITITNDKGRLSKEETIERMVQEAKEYKADEKORDKVSXNS 544
Oy      550  YAYSILKNOIGKEKLGKLSSEDKETMEKAVEKEIEMLESQODADIEDFKAKKELEIY 609
Db      545  YAFNKSAYED-EGLKGRISADKRRKVLDCQEVISWLDANTLAEKDEFEHKKRELEQVC 603
Oy      610  QPIISKLY-GSAGPPPTG 626
Db      604  NPIISGLYQAGGPGPG 621

RESULT 15
US-09-935-642-1
; Sequence 1, Application US/09935642
; Publication No. US20030044795A1
; GENERAL INFORMATION:
; APPLICANT: BYRJALSEN, Inger
; APPLICANT: LARSEN, Peter
; TITLE OF INVENTION: Biochemical Markers for the Human
; FILE REFERENCE: 8969-014
; CURRENT APPLICATION NUMBER: US/09/935, 642
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: PCT/GB97/02394
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: PCT/GB97/0132.8
; PRIOR FILING DATE: 1997-04-08
; PRIOR APPLICATION NUMBER: PCT/GB9618600.2
; PRIOR FILING DATE: 1996-09-06
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-935-642-1

Query Match      62.3%; Score 2039.5; DB 11; Length 641;
Best Local Similarity 64.4%; Pred. No. 4.1e-138;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

Oy      13  VGIDGTTTSCVGVFKNGRVEIANDQGNRTTPSVAFTPGGERLIGDAKNQLTSPEN 72
Db      7  IGIDGTTTSCVGVFGHKGVEIANDQGNRTTPSVAFTPGGERLIGDAKNQVALNQN 65
Oy      73  TVPDAKRLIGRTWMDPSVQODIKFLPKVVEKKTPIYQVDIGGQRTKTPAPEISAVL 132
Db      66  TVPDAKRLIGRKFQDPVQSDMKHMPFQVINDGKPKQVSY-KGETAFAPPEEISSAVL 124
Oy      133  TKMKEIAYLGKKTVAHVAVTPAYFENDQROATKDACTAGLNVMTIINEPTAAIAYG 192
Db      125  TKMKEIAYLGKKTVAHVAVTPAYFENDQROATKDACTAGLNVMTIINEPTAAIAYG 184
Oy      193  LDKR-EGEKNILVDFLGGTDFVSLTTIDNGVEFVAVATNGDTHLGGEDFDQVMEHFKL 251
Db      185  LDRGCKGRNVLIIFDLGGTDFVSLTTIDNGIPEVKATAGDTHLGGEDFDRLNVHFEVE 244
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QY 252 YKKTGKDYRKDNRAVOKLRREYKAKRALSSQOARIEIESFYEGEDESEITLJTRAKFEE 311
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Db 245 FKXHKKDISQNNRAVRRLTACERAKRRLSSSTQASLEIDSLFEGIDFTSTTRAFEE 304
    :|:| |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 312 LNMDFRSTMKRPVQKVLSDSKSDIDETVLVGSTRIPIQOLYKEFPNGKEPSRGIN 371
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QY 372 PDEAVAYGAAGVAGVSGD--ODTGDVLVLDVCPLTGIEYVGVMTKLI PRNTVVP TKK 429
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Db 365 PDEAVAYGAAGVAGVAGVSGD--ODTGDVLVLDVCPLTGIEYVGVMTKLI PRNTVVP TKK 424
    | |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 430 SQIFSTASDNQPTVTITKYVEGERPLTKDNHLLGTFDLTGIPAPRGVPOIETVFEIDVNG 489
    :|:| |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
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    :|:| |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 490 ILRVTAEDGTGKKNKITTNDONRLTPEIERNVDAEKFAEDKKLKERIDTRNELES 549
    | |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 485 ILNVTATDKSTGKANKITTNDGRLSKEIERMVOEAERYKKADEVOERERVSANKALES 544
    | |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 550 YAYSLKNOIGDKKELGKLSSEDEKEMEKAVEEKIEMLESHODADIEDFAKKKLEIY 609
    | |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db 545 YAFNMKSAVED-EGLGKISADKKVLDKQOEVISMLDANTLAERKDEFEHKKRKELEQVC 603
    | |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
QY 610 OPTISKLY-GSAGPPPTG 626
    | |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
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Job time : 29.1274 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:37 ; Search time 15.4269 Seconds
(Without alignments)
1736.110 Million cell updates/sec

Title: US-09-806-955A-2
Perfect score: 3225
Sequence: 1 MEEDKKEDVCTVVGIDLGT.....SKLYGSAGPPPTGEPTAFL 633

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 4231058 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/laa/5A.COMB.pep:*
2: /cgn2_6/ptodata/1/laa/5B.COMB.pep:*
3: /cgn2_6/ptodata/1/laa/6A.COMB.pep:*
4: /cgn2_6/ptodata/1/laa/6B.COMB.pep:*
5: /cgn2_6/ptodata/1/laa/PCUTS.COMB.pep:*
6: /cgn2_6/ptodata/1/laa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3209	99.5	654	1 US-08-441-139-11	Sequence 11, Appl
2	3168	98.2	666	1 US-08-441-139-16	Sequence 16, Appl
3	2310.5	71.6	655	4 US-09-632-538C-36	Sequence 36, Appl
4	2173	67.4	682	1 US-08-441-139-2	Sequence 2, Appl
5	2156	66.9	663	1 US-08-441-139-7	Sequence 7, Appl
6	2083	64.6	890	4 US-09-513-783A-174	Sequence 174, Appl
7	2077	64.4	646	1 US-08-441-139-5	Sequence 5, Appl
8	2065.5	64.0	679	1 US-08-441-139-14	Sequence 14, Appl
9	1938	60.1	643	3 US-08-797-358B-3	Sequence 3, Appl
10	1547.5	48.0	679	1 US-08-214-583-2	Sequence 2, Appl
11	1513	46.9	616	4 US-09-134-001C-3646	Sequence 3646, Ap
12	1495	46.4	642	4 US-09-207-388-15	Sequence 15, Appl
13	1495	46.4	662	4 US-09-207-388-16	Sequence 16, Appl
14	1492	46.3	642	4 US-09-207-388-13	Sequence 13, Appl
15	1492	46.3	657	4 US-09-252-991A-27358	Sequence 27358, A
16	1484	46.0	711	4 US-09-613-303-41	Sequence 41, Appl
17	1480.5	45.9	724	4 US-09-613-303-45	Sequence 45, Appl
18	1478.5	45.8	660	4 US-09-328-352-4932	Sequence 4932, Ap
19	1474	45.7	641	1 US-08-441-139-4	Sequence 4, Appl
20	1461.5	45.3	649	1 US-09-066-047-5	Sequence 5, Appl
21	1444	44.8	607	2 US-08-472-534-5	Sequence 5, Appl
22	1399.5	43.4	536	4 US-09-107-532A-6930	Sequence 6930, Ap
23	1378	42.7	539	4 US-09-198-452A-543	Sequence 543, Ap
24	1303.5	40.4	600	6 5240706-1	Patent No. 5240706
25	1297	40.2	562	4 US-09-207-388-14	Sequence 14, Appl
26	1255	38.9	253	4 US-09-581-001B-8	Sequence 8, Appl
27	1140.5	35.4	339	2 US-08-928-692-52	Sequence 52, Appl

28	1140.5	35.4	339	4 US-09-339-972-52	Sequence 52, Appl
29	1077	33.4	415	4 US-09-207-368-12	Sequence 12, Appl
30	990.5	30.7	623	4 US-09-257-991A-22906	Sequence 22906, A
31	973.5	30.2	620	4 US-09-328-352-7730	Sequence 7730, Ap
32	941	29.2	187	6 5196523-13	Patent No. 5196523
33	842	26.1	199	4 US-09-581-001B-7	Sequence 7, Appl
34	824	25.6	168	1 US-08-441-139-10	Sequence 10, Appl
35	818.5	25.4	315	1 US-08-257-073-7	Sequence 7, Appl
36	800.5	24.9	941	4 US-09-513-783A-172	Sequence 172, Ap
37	750.5	23.3	471	1 US-08-203-905B-2	Sequence 2, Appl
38	726.5	22.5	472	1 US-08-203-905B-14	Sequence 14, Appl
39	701	21.7	307	4 US-08-858-207A-481	Sequence 481, App
40	680.5	21.1	196	4 US-09-581-001B-9	Sequence 9, Appl
41	642.5	19.9	129	6 5196523-10	Patent No. 5196523
42	607.5	18.8	999	2 US-08-770-301A-3	Sequence 3, Appl
43	607.5	18.8	999	2 US-09-175-581-3	Sequence 3, Appl
44	598	18.5	999	2 US-08-770-301A-1	Sequence 1, Appl
45	598	18.5	999	3 US-09-175-581-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-441-139-11
: Sequence 11, Application US/08441139
: Patent No. 5773245
: GENERAL INFORMATION:
: APPLICANT: Wiltup, Dr. Karl D.
: APPLICANT: Robinson, Anne S.
: TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
: TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
: NUMBER OF SEQUENCES: 20
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: NY
: COUNTRY: USA
: ZIP: 11530
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/441,139
: FILING DATE: 15-MAY-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/089,997
: FILING DATE: 06-JUL-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: DIGILLO, Frank S.
: REGISTRATION NUMBER: 31,346
: REFERENCE/DOCKET NUMBER: 8646
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 516-742-4343
: TELEFAX: 516-742-4366
: TELEX: 230 901 SANS UR
: INFORMATION FOR SEQ ID NO: 11:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 654 amino acids
: TYPE: amino acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: protein
: US-08-441-139-11
: Query Match 99.5%, Score 3209, DB 1, Length 654:
: Best Local Similarity 99.7%, Pred. No. 7.2e-259:
: Matches 629, Conservative 2, Mismatches 0, Indels 0, Gaps 0:

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QY      2 EBDKKEDVAVGVGIDLGTTYSQCVGFKNKGRVEI IANDGNKITTSYVAFPEEGRLIGDA 61
Db      20 EBDKKEDVAVGVGIDLGTTYSQCVGFKNKGRVEI IANDGNKITTSYVAFPEEGRLIGDA 79
QY      62 AKKQLTSPNPTVFDQKRLIGRTWMDPSVOOD IKFLPKRVYEKKTKPYIOVDIGGGQTKT 121
Db      80 AKKQLTSPNPTVFDQKRLIGRTWMDPSVOOD IKFLPKRVYEKKTKPYIOVDIGGGQTKT 139
QY      122 FAREBISAVLTKMKETAAYLGKKVTHAAVYVPVAFMDAOROKTKDAGTAGLNVNR II 181
Db      140 FAREBISAVLTKMKETAAYLGKKVTHAAVYVPVAFMDAOROKTKDAGTAGLNVNR II 199
QY      182 NEPTAAALAYGLDKRGEKNILVFDLGCGTFDVSLLTIDNGVFVEVATNGDTHLGCDFD 241
Db      200 NEPTAAALAYGLDKRGEKNILVFDLGCGTFDVSLLTIDNGVFVEVATNGDTHLGCDFD 259
QY      242 QRMEHFITLYKKKTKDVKRDNRAVQKLRREVEKAKALSQHQARIEISFEGEDFS 301
Db      260 QRMEHFITLYKKKTKDVKRDNRAVQKLRREVEKAKALSQHQARIEISFEGEDFS 319
QY      302 ETYLTRAKFEELNMDLFRSTWPKPVQVLYLEDSDLKSIDELIYVGGSTRIPKIQOLVKEFF 361
Db      320 ETYLTRAKFEELNMDLFRSTWPKPVQVLYLEDSDLKSIDELIYVGGSTRIPKIQOLVKEFF 379
QY      362 NGKEPSRGINPDEAVAYGAAYVAGVLSGDQDTGDLVLLDVCPLTLGIEYGVGWTKLIPR 421
Db      380 NGKEPSRGINPDEAVAYGAAYVAGVLSGDQDTGDLVLLDVCPLTLGIEYGVGWTKLIPR 439
QY      422 NTVPVPRKKSQIFSTASDNDQPTVTKYVEGERPLTKDNHLTGFPDQTGTPRPRGVPIEV 481
Db      440 NTVPVPRKKSQIFSTASDNDQPTVTKYVEGERPLTKDNHLTGFPDQTGTPRPRGVPIEV 499
QY      482 TFEIDVNGILRYTAEDKGTKGNKKITITINDQRLTPEEIERVWDAEKFABEDKKLERI 541
Db      500 TFEIDVNGILRYTAEDKGTKGNKKITITINDQRLTPEEIERVWDAEKFABEDKKLERI 559
QY      542 DTRNELESYVSLKNOIGDKELGGLSDEKETEKAVEEKTIEVLESHQADIEDPRKAK 601
Db      560 DTRNELESYVSLKNOIGDKELGGLSDEKETEKAVEEKTIEVLESHQADIEDPRKAK 619
QY      602 KKELEETVOPITISKLYSGAPPTGDEPDAE 632
Db      620 KKELEETVOPITISKLYSGAPPTGDEPDSE 650

RESULT 2
US-08-441-139-16
: Sequence 16, Application US/08441139
: Patent NO. 5773245
: GENERAL INFORMATION:
: APPLICANT: WILTRUP, Dr. Karl D.
: APPLICANT: Robinson, Anne S.
: TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
: TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
: NUMBER OF SEQUENCES: 20
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: NY
: COUNTRY: USA
: ZIP: 11530
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/441,139
: FILING DATE: 15-MAY-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/089,997

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[illegible]

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; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH
; TITLE OF INVENTION: ITS USE
; FILE REFERENCE: 54359
; CURRENT APPLICATION NUMBER: US/09/632.538C
; CURRENT FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: PR
; ORGANISM: Pseudotsuga menziesii
US-09-632-538C-36

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Query Match          71.6%; Score 2310.5; DB 4; Length 655;
Best Local Similarity 70.3%; Pred. No. 5.4e-184;
Matches 445; Conservative 89; Mismatches 94; Indels 5; Gaps 3;

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QY 2 EEDKEDVGTGIDLTGTYSCVGVFKNGRVEIIANDQGNRTTPSVAAFTPEGERLIGDA 61
DB 20 EEAAR--LGTVIGIDIGTYSVGVKNGHVEIIANDQGNRTTPSVAAFT--DTERLIGEA 76
QY 62 AKQQLSNPENNYFDKRLIGRTMNPVSQODIKFLPFKYVEKTKRYIOVDIGGGQTKT 121
DB 77 AKQQAAMNBERVFDVKRLIGRKYEDKEVQDKIKLPIKYINKDGKRYIQVKIRDEIKV 136
QY 122 FAEIEISAMVLTGKMETAEAYLGKRYTHAVTVPAYFNDAORATKAGTIAGINVRIT 181
DB 137 FSEIEISAMVLTGKMETAEAYLGKRYTHAVTVPAYFNDAORATKAGTIAGINVRIT 196
QY 182 NEPTAAIAVGLDKREGKNIIVFDLGGTFDVSLLTIDNGVEVYATNGDTHLGGEDFD 241
DB 197 NEPTAAIAVGLDKREGKNIIVFDLGGTFDVSLLTIDNGVEVYATNGDTHLGGEDFD 256
QY 242 QRMWEIFIKLYKKKTKGDKVAKNRAVOKLRREVAKRAISSQHOARIEIESYEGEDFS 301
DB 257 QRMWEIFIKLYKKKTKGDKVAKNRAVOKLRREVAKRAISSQHOARIEIESYEGEDFS 316
QY 302 ETLTRAFEEELNDLFRSTPMKPVOKYLEDSDLKKSIDEIVLVGGSTRIPKIDOLYKEFF 361
DB 317 ETLTRAFEEELNDLFRSTPMKPVOKYLEDSDLKKSIDEIVLVGGSTRIPKIDOLYKEFF 376
QY 362 NGKEPRGINPDEAVAAYGAOVAGVLSGD--QDTGDLVLLDVCPLTIGIEIVGGVMTKLI 419
DB 377 DGEEPRKGVNPDEAVAAYGAOVAGVLSGD--QDTGDLVLLDVCPLTIGIEIVGGVMTKLI 436
QY 420 PRNTVPTKKSQIFSTASDNQPTVTIKYVGEERPLTKDNHLLGTFDLTGIPPARGRPOI 479
DB 437 PRNTVPTKKSQIFSTASDNQPTVTIKYVGEERPLTKDNHLLGTFDLTGIPPARGRPOI 496
QY 480 EYTFEIDVNGILNVTAEKGTGKNNKITTNDQNRLLTPEIEIRVYNDAEKFAEDKKLKE 539
DB 497 EYTFEIDVNGILNVTAEKGTGKNNKITTNDQNRLLTPEIEIRVYNDAEKFAEDKKLKE 556
QY 540 RIDTRNELESAYSLANQJGDKERLKGSLSEDEKTEMKAVEERIEWLESHODADIEDFK 599
DB 557 KIDARNNLETVYVNMKSTINEKDLKIDSEDEKIEITAIKALEWLDNDQNAEKEDFE 616
QY 600 AKKELEETVOPILSKLYGSAGPPPGGEPTAE 632
DB 617 EKLEVEAVCSPIIKQYKTEYTGSGGSGGDEDE 649

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RESULT 4

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; Sequence 2, Application US/08441139
; Patent No. 5773245

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; GENERAL INFORMATION:
; APPLICANT: Wiltrop, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:

```

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; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; City: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441,139
; FILING DATE: 15-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997
; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Digilio, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4363
; TELEFAX: 516-742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SRO ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 682 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-441-139-2

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Query Match          67.4%; Score 2173; DB 1; Length 682;
Best Local Similarity 68.0%; Pred. No. 1.7e-172;
Matches 429; Conservative 84; Mismatches 108; Indels 10; Gaps 6;

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QY 64 NQLTSPENNYFDKRLIGRTMNPVSQODIKFLPFKYVEKTKRYIOVDIGGGQTKTFA 123
DB 103 NQYAANPNQNIIFDKRLIGLKYNDRSYQDKIKHLPFVYVKKDGPAAVEGV--GKEKVF 161
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DB 162 PEIEISAMVLTGKMETAEAYLGKRYTHAVTVPAYFNDAORATKAGTIAGINVRIT 221
QY 184 PTAAIAVGLDKREGKNIIVFDLGGTFDVSLLTIDNGVEVYATNGDTHLGGEDFDOR 243
DB 222 PTAAIAVGLDKREGKNIIVFDLGGTFDVSLLTIDNGVEVYATNGDTHLGGEDFDOR 281
QY 244 VMEHFIKLYKKKTKGDKVAKNRAVOKLRREVAKRAISSQHOARIEIESYEGEDFS 303
DB 282 IVROLTKAFKKKIDIVSDNNKALAKRRAEAKRAKALSSOMSTRIDEISFVQIDSET 341
QY 304 LTRAKFEELNDLFRSTPMKPVOKYLEDSDLKKSIDEIVLVGGSTRIPKIDOLYKEFF 363
DB 342 LTRAKFEELNDLFRSTPMKPVOKYLEDSDLKKSIDEIVLVGGSTRIPKIDOLYKEFF 401
QY 364 KPSRGINPDEAVAAYGAOVAGVLSGDQDGLVLLDVCPLTIGIEIVGGVMTKLI 423
DB 402 KPSRGINPDEAVAAYGAOVAGVLSGDQDGLVLLDVCPLTIGIEIVGGVMTKLI 461
QY 424 VPTPKSQIFSTASDNQPTVTIKYVGEERPLTKDNHLLGTFDLTGIPPARGRPOI 483
DB 462 AITPKSQIFSTASDNQPTVTIKYVGEERPLTKDNHLLGTFDLTGIPPARGRPOI 521
QY 484 EIDVNGILNVTAEKGTGKNNKITTNDQNRLLTPEIEIRVYNDAEKFAEDKKLKE 543
DB 522 ALDANGILKVSATDKGSGESITITNDKGRLOEIEIDRMVDEAKFASDASIKAKVES 581

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Db 486 IAEKRRKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYSTRAR 545
Qy 309 FEELNMDLFRSTMKPVOKVLESDLKSDIDEIVLYGSGTRIPKIQOVLKEFFNGKPSR 368
Db 546 FEELNMDLFRSTMKPVOKVLESDLKSDIDEIVLYGSGTRIPKIQOVLKEFFNGKPSR 605
Qy 369 GINDEAVAGAAGVAVGLSD--QDTGDLVLDVCPVLGTGIEFVGVMKLIPIRNTVVP 426
Db 606 SINDEAVAGAAGVAVGLSD--QDTGDLVLDVCPVLGTGIEFVGVMKLIPIRNTVVP 665
Qy 427 TKKSQIFSTASDNOPVTYIKYEGEERPLTKDNHLLGTGFDLGPAPRGVQIETVPEID 486
Db 666 TKQOTFTYSDNPGVLIQYEGEERAMTKDNHLLGTGFDLGPAPRGVQIETVPEID 725
Qy 487 VNGILRTADKDGKGNKKTITNDONRLPEEIERVYVNAEKAFAEDKKLERIDTRNE 546
Db 726 ANGLNVAAYGAAVAVGLSD--QDTGDLVLDVCPVLGTGIEFVGVMKLIPIRNTVVP 785
Qy 547 LESYAVSLKNOIGDKELGKLSSEDEKTEMEKAVEEIKEMLESHQDADIEDFKAKKELE 606
Db 786 LESYAVFMKATVED-EKLOGKINDEKOKILDKCNELIINLMDKQTAKEKEFEHQKELE 844
Qy 607 EIYOPITSLKYGSGAPPTG 626
Db 845 KVCNPIITIKLYOSAGMPGG 864

RESULT 7
US-08-441-139-14
; Sequence 14, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wiltup, Dr. Karl D.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441.139
; FILING DATE: 15-MAY-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/089,997
; FILING DATE: 06-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Digiglo, Frank S.
; REGISTRATION NUMBER: 31,346
; REFERENCE/DOCKET NUMBER: 8646
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 516-742-4343
; TELEFAX: 516-742-4366
; TELEX: 230 901 SANS UR
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 646 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-441-139-14

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Query Match 64.4%; Score 2077; DB 1; Length 646;
Best Local Similarity 66.0%; Pred. No. 1.5e-164;
Matches 409; Conservative 97; Mismatches 108; Indels 6; Gaps 5;

Qy 10 GTTVGIDLGTTYSCVGVFKNGRVEIIANDOGNRTIPSYAVFTEPGERLIGDAKNQLRN 69
Db 4 GPVAGIDLGTTYSCVGVFOHKGVEIIANDOGNRTIPSYAVFTEPGERLIGDAKNQVRN 62
Qy 70 PENTVPFAKRLIGTMTDPSVODIKFLPFVVEKTKKRYIQVQIGGOTFTFAPEESA 129
Db 63 PNTVPFAKRLIGRFPDVAVQSDMKHPFVNVNADGRPKVQVEY-KGETKSFYPEVSS 121
Qy 130 MVLTKMETAEAYGKTKTHAVVVPAYFNDQROATKDACTIGLVMRIINPTAAAI 189
Db 122 MVLTKMETAEAYGKTKTHAVVVPAYFNDQROATKDACTIGLVMRIINPTAAAI 181
Qy 190 AVGLDKREG-EKNILVFDLGGTFVSLITDNCVFEEVATNGTHLGGEDFDORVMEH 248
Db 182 AVGLDKRGVABERNVILFDLGGTFVSLITDNCVFEEVATNGTHLGGEDFDORVMEH 241
Qy 249 IKLYKKKTGDVRRDNRAVOKLREVEKAKRALSQOARIEISFYEGEDFSETLRAR 308
Db 242 IAEKRRKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYSTRAR 301
Qy 309 FEELNMDLFRSTMKPVOKVLESDLKSDIDEIVLYGSGTRIPKIQOVLKEFFNGKPSR 368
Db 302 FEELNMDLFRSTMKPVOKVLESDLKSDIDEIVLYGSGTRIPKIQOVLKEFFNGKPSR 361
Qy 369 GINDEAVAGAAGVAVGLSD--QDTGDLVLDVCPVLGTGIEFVGVMKLIPIRNTVVP 426
Db 362 SINDEAVAGAAGVAVGLSD--QDTGDLVLDVCPVLGTGIEFVGVMKLIPIRNTVVP 421
Qy 427 TKKSQIFSTASDNOPVTYIKYEGEERPLTKDNHLLGTGFDLGPAPRGVQIETVPEID 486
Db 422 TKQOTFTYSDNPGVLIQYEGEERAMTKDNHLLGTGFDLGPAPRGVQIETVPEID 481
Qy 487 VNGILRTADKDGKGNKKTITNDONRLPEEIERVYVNAEKAFAEDKKLERIDTRNE 546
Db 482 ANGLNVAAYGAAVAVGLSD--QDTGDLVLDVCPVLGTGIEFVGVMKLIPIRNTVVP 541
Qy 547 LESYAVSLKNOIGDKELGKLSSEDEKTEMEKAVEEIKEMLESHQDADIEDFKAKKELE 606
Db 542 LESYAVFMKATVED-EKLOGKINDEKOKILDKCNELIINLMDKQTAKEKEFEHQKELE 600
Qy 607 EIYOPITSLKYGSGAPPTG 626
Db 601 KVCNPIITIKLYOSAGMPGG 620

RESULT 8
US-08-441-139-5
; Sequence 5, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wiltup, Dr. Karl D.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY
; COUNTRY: USA
; ZIP: 11530
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/441.139

```

FILING DATE: 15-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DIGILIO, FRANK S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8646
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 679 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-441-139-5

Query Match 64.0% Score 2065.5; DB 1; Length 679;
Best Local Similarity 65.4% Pred. No. 15e-163;
Matches 403; Conservative 90; Mismatches 118; Indels 5; Gaps 4;

QY 7 EDVGTAVGIDLTGTYSCGVFNKGVRELIANDQGNRTIPSYVAFPEGERLIGDAKKNOL 66
DB 48 EDYGVIGIDLTGTYSCAVNMKNGTELIANDQGNRTIPSYVAFPEGERLIGDAKKNOL 106
QY 67 TSNPNTVYDAKRLIGRTWNPDSVOODIKFLPKVVEKTKPYIOVDIGGOTKTPAPEE 126
DB 107 ASNPNTVYDAKRLIGRTWNPDSVOODIKFLPKVVEKTKPYIOVDIGGOTKTPAPEE 165
QY 127 ISAVLTMMKKEAEVYLVKKTTHAVYTPAYFNDQROATKAGTACAGTACAGTACAGTAC 186
DB 166 VSGMLTKMKKQIAEDYLVKKTTHAVYTPAYFNDQROATKAGTACAGTACAGTACAGTAC 225
QY 187 AIAVGLDKREGEKNILVFDLGGTFDVSLLTIDNGVEVAVTNGDTHLGGEDFDQRYME 246
DB 226 AIAVGLDKREGEKNILVFDLGGTFDVSLLTIDNGVEVAVTNGDTHLGGEDFDQRYME 285
QY 247 HPIKLYKKTGKDVKKDRAVOKLREVEKAKARALSSQHOARIESEFEGEDSEFTL 306
DB 286 HPIKLYKKTGKDVKKDRAVOKLREVEKAKARALSSQHOARIESEFEGEDSEFTL 345
QY 307 AKFEELNMDLFRSTMKPKYQKVLSDKLSIDEIVLVGSGSTRIPKIOOLVKEFPNGKEP 366
DB 346 AKFEELNMDLFRSTMKPKYQKVLSDKLSIDEIVLVGSGSTRIPKIOOLVKEFPNGKEP 405
QY 367 SHGIPDEAVAYGAOVAGVLSGDDDTGDLVLLDVCPILTGLIETVGVVTKLIPRNTVVP 426
DB 406 SHGIPDEAVAYGAOVAGVLSGDDDTGDLVLLDVCPILTGLIETVGVVTKLIPRNTVVP 465
QY 427 TKKSQIFSTASDNQNTVITIKYEGEERPLTKONHLLGTPDLTGIPAPRCPVPEIETFEED 486
DB 466 TKKSQIFSTASDNQNTVITIKYEGEERPLTKONHLLGTPDLTGIPAPRCPVPEIETFEED 525
QY 487 VNGILRTAEDKGTNNKNTITTDQNRRLTPEIEIRMVADAKFAEEDKLLERIDTRRE 546
DB 526 VNGILRTAEDKGTNNKNTITTDQNRRLTPEIEIRMVADAKFAEEDKLLERIDTRRE 585
QY 547 LESVAYSLKNDIGDEKLGKLSSEDKETMEKAEKIEMLSHOD-ADIEDFKAKKREL 605
DB 586 LESVAYSLKNDIGDEKLGKLSSEDKETMEKAEKIEMLSHOD-ADIEDFKAKKREL 643
QY 606 EEIVOPISKLYGSAG 621
DB 644 KESEVPIILAKASAG 659

RESULT 9
US-08-797-358B-3

Sequence 3, Application US/08/97358B
Patent No. 6268478
GENERAL INFORMATION:
APPLICANT: Adams, John
TITLE OF INVENTION: INTRACELLULAR VITAMIN D BINDING PROTEIN
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell & Flores LLP
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: United States
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/97,358B
FILING DATE: 11-Feb-1997
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/011,491
FILING DATE: 12-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-CE 3165
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 643 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-08-797-358B-3

Query Match 60.1% Score 1938; DB 3; Length 643;
Best Local Similarity 61.7% Pred. No. 3.8e-153;
Matches 379; Conservative 107; Mismatches 122; Indels 6; Gaps 5;

QY 13 VGIDGTYSCGVFNKGVRELIANDQGNRTIPSYVAFPEGERLIGDAKKNOLTSNPN 72
DB 9 VGIDGTYSCGVFNKGVRELIANDQGNRTIPSYVAFPEGERLIGDAKKNOLTSNPN 67
QY 73 TVFDKAKRLIGRTWNPDSVOODIKFLPKVVEKTKPYIOVDIGGOTKTPAPEEISAMVL 132
DB 68 TVFDKAKRLIGRTWNPDSVOODIKFLPKVVEKTKPYIOVDIGGOTKTPAPEEISAMVL 126
QY 133 TKMKETAELVLDKKTTHAVYTPAYFNDQROATKAGTACAGTACAGTACAGTACAGTAC 192
DB 127 TKMKETAELVLDKKTTHAVYTPAYFNDQROATKAGTACAGTACAGTACAGTACAGTAC 186
QY 193 LDKR-EGEKNILVFDLGGTFDVSLLTIDNGVEVAVTNGDTHLGGEDFDQRYMEFIKL 251
DB 187 LDKR-EGEKNILVFDLGGTFDVSLLTIDNGVEVAVTNGDTHLGGEDFDQRYMEFIKL 246
QY 252 YKKTKGKDVKKDRAVOKLREVEKAKARALSSQHOARIESEFEGEDSEFTLTRAKEE 311
DB 247 YKKTKGKDVKKDRAVOKLREVEKAKARALSSQHOARIESEFEGEDSEFTLTRAKEE 306
QY 312 LMDLFRSTMKPKYQKVLSDKLSIDEIVLVGSGSTRIPKIOOLVKEFPNGKEPSESGIN 371
DB 307 LMDLFRSTMKPKYQKVLSDKLSIDEIVLVGSGSTRIPKIOOLVKEFPNGKEPSESGIN 366
QY 372 PDEAVAYGAOVAGVLSGDDDTGDLVLLDVCPILTGLIETVGVVTKLIPRNTVVPTRK 429
DB 367 PDEAVAYGAOVAGVLSGDDDTGDLVLLDVCPILTGLIETVGVVTKLIPRNTVVPTRK 426


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Oy 129 AMVLKMKHETAAAYGKTKTHAVYVPAFVFNQORATDAGIACIACIYMRINEPTAAA 188
Db 98 AMILQNKSTAEYNIAGDIYDRAKAVITYPAYFNGEORATDAGIACIACIYMRINEPTAAA 157
Oy 189 IAYGIDKREGEKNILVFDGSGTFDVSILTTIDNGVEVYATNGDTHLAGEDEFDQVMEHF 248
Db 158 LAYGADKTFETDQKVLVFDGSGTFDVSILTELDQVEYVSTAGDNKLGSGDFDQVILDYL 217
Oy 249 IKLYKKTKGDKVQRKCNRAVOXKLRREVEKAKRALSOSHORIETESRYEEGD----FSEYL 304
Db 218 VSEFKKEGVDSQNMALQRLKDAEKKKDDISGVSOQIOTSIPTSAGENGFLHEISL 277
Oy 305 TRAFKEELNMDLFRSTMKFPQVLELSDSKSDKSIDELIVAGVSTRIPIQOULKEFFENG 364
Db 278 TRSKFEELADSLIKTKMEPTROALKDAGLSTSEIDELIVLGSTRIPAVQEAVKKEI-GK 336
Oy 365 EPSRQINDENAVAYCAVQAGVLSGDODPDGDLVLDVCLTIGIEIVGVGMKILIRNY 424
Db 337 EPHKKNINDEEVAMAAIQAQVITG--DVKDVALLDVTPLSLGIELMGGMNLTIERNT 394
Oy 425 VPTKRSQIFSTASDNQOPTVITIKYVBGEERPLTFRKNHLGTFEDTLGIPPARGVQIEVTE 484
Db 395 IPTKRSQYVSTAANDQNPANDIHVLGGERMASDNKTLGRFOLTDIPAPRGVQIEVTEFD 454
Oy 485 IDVNGILNVTADDKGTGKNKKTITINNDQRLPPEELERAVYNDAEKAEBEKKLAKERIDR 544
Db 455 IDKNQINVTATDGLGTINKQNTITIOSSSS--LSDEELDRVAKAEEAENAEADKKRREBEDR 513
Oy 545 NELESVAYSLKNOIGIDKEKLGKLSSEDEKTEMEKAVEEKIEMLESH--QADADIDFKAKK 603
Db 514 NEADSLVQVEKTVND---LGENISDEOK-----KNAEKKKDALKTALMEGDEDIDIAKKE 566
Oy 604 ELEELVQPIKSLKYSa-----GPPYTEEDT 630
Db 567 ELEKVIQELSAKVEYQDAQQAQQAQGEEOSSQS 599

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RESULT 12
US-09-207-388-15
; Sequence 15, Application US/09207388
; Patent No. 6497880
; GENERAL INFORMATION:
; APPLICANT: Wisniewski, Jan
; TITLE OF INVENTION: HEAT SHOCK GENES AND PROTEINS FROM
; TITLE OF INVENTION: NEISSERIA MENINGITIDIS, CANDIDA GLABRATA AND ASPERGILLUS
; FILE REFERENCE: 870109.411
; CURRENT APPLICATION NUMBER: US/09/207,388
; CURRENT FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PasteSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Neisseria meningitidis
US-09-207-388-15

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[illegible]

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0Y YGLDKREG- EKIIIEVDFGGGFEDVSLTIDN-----GVFEVATNGDTHIGEDFPQWRM 245
   : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db FGMGDGKDKDRVAVAYDLDGGTFDIIITIANLDGKDFEVLATNGDTFLGGEDFPQRLI 238
   179

0Y EHFILYKKTGCDVNRKDNRAVOKLREVEKAKRALSSQARILESFEGED----- 299
   246
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   239 DHIIAEFKKEGIDILKQDVMALORLKEAEKAKIELSSGQGTIEINLP--YITWDATGPKH 296

0Y FSETITRAKFEELMNDLPRSTMKPKQKVLEBDSLKSDIDELVYVGSTRIPRIQOLYKE 359
   300
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   297 LAMKTRAKFESVLEDLITRSTIEPKIAKDGLSTGDIIDVILVGGSGRMPVQDAVKA 356

0Y FENGKEPSRGIDPEAVVGAAVQAGVLSDDGDTGLVLDLPCPLTGIEYGVWTKLI 419
   360
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   357 FF-GGEPRKDVAPDEAVANGAIGQEVLSGR--SVLLLDVTPLSLGIETMGVWTKLI 413

0Y PRINTVPTKKSQIFSTASDNQPTVTIKYEGEERPLTKDNHLGTFDPLTGIIPAPRGVPOI 479
   420
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   414 OKNTTIPKASOVFSTAEONQSAVVIHVLOGEERERASAKSLGQFNLGDIAPRGMPOI 473

0Y EYTFEIDVNGILRYVAEDKGCTGNKKKITTTNDQNRILTPEIRPMYADVADKFAEDKKLKE 539
   480
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   474 EYTFEIDANGILHVSXKDKGCTGKKAANITIQSSG-LSEETIERMYADALNAEEDKKLKE 532

0Y RIDTPNELESYAVSLKNQIGDKERLGGKLSBDEKFTMEKAAVEKILWLESHODADIEDK 599
   540
Db : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
   533 LVASRNQAEALIHVSXKSLAD---YGDKIDAAEKERIEAALKEAVEAVKGDKAID--- 586

0Y AKKKELEELVOPITISKLYGSA--GPPPTGEEDTA 631
   600
Db AKTEALGAASOKLGEVYVAQAOAEADQAGEBDA 619
   587

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RESULT 13
US-09-207-388-16
; Sequence 16, Application US/09207388
; Patent No. 6497880
; GENERAL INFORMATION:
; APPLICANT: Wisniewski, Jan
; TITLE OF INVENTION: HEAT SHOCK GENES AND PROTEINS FROM
; TITLE OF INVENTION: NEISSERIA MENINGITIDIS, CANDIDA GLABRATA AND ASPERGILLUS
; TITLE OF INVENTION: PMMGATUS
; FILE REFERENCE: 870109.411
; CURRENT APPLICATION NUMBER: US/09/207,388
; CURRENT FILING DATE: 1998-12-08
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 662
; TYPE: PRY
; ORGANISM: Neisseria meningitidis
US-09-207-388-16

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[illegible]


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314 KHLNVKYSRAKLESLEVEDLVORTIEPCRTALKDGLDVSDIHEVILVGGQTRMPLVQTV 373
OY      358 KEFENGKEPSRGINPDEAVAYGAAGVLSGDDGTGLVLDVCPYTLGIEYGVMTK 417
      ||| ||| :||| ||| ||| | | :||| ||| ||| ||| |||
Db      374 AEFF-GKEARKDVNPDEAVAYGAALQCAVLG--DVKDVLLDVTPLTIGIETIGVMTG 430
OY      418 LIPRNVVPTKKSQIFSTASNOPTVTIKYEGEERPLTKDNHLLGTFDLTGIPPARGPV 477
      || :|| :||| ||| ||| | | | :||| | | ||| ||| |||
Db      431 LIEKNTTIPTKKSQVFSTADDNCGAVTIHVLQGERKQAAQKSLGKFDLADIPPARGPV 490
OY      478 QIEYTERIDVNGILRAYTAEDKGTGNKKKITITNDONRLTPEIERMYNDAEKFAEDKXL 537
      ||||| ||| ||| ||| ||| ||| :| :| :||| ||| ||| |||
Db      491 QIEVTFEDIDANGILHVSADKATGKQOSIVL-KASSGLSEDEIQOMVDAEANAEDRKE 549
OY      538 KERIDTNNLESYAYSLSKNOIGDKKELGKLSSEDEKTEMEKAVEEKIEMWLESHODADIED 597
      :| ||| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      550 BELAANNGDALVHATRKMT---TEAGDKATAEADKATIEKALGELNAAYKGDDKAEIE- 605
OY      598 FKAKKKELEIIVOPiISKLYGSAG---PPPTGEEDTA 631
Db      606 --AKMNLISQASTPLAQKMYAEQAQGEDAPQGEQAKA 641
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Search completed: September 30, 2003, 09:48:57
Job time : 17.4269 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 30, 2003, 09:47:38 : Search time 26.8726 Seconds

(without alignments)
3564.123 Million cell updates/sec

Title: US-09-806-955a-2

Perfect score: 3225
Sequence: 1 MEEDKEDVGTGVGIDLGT.....SKLYGAGPPPTGEDPTAEL 633

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 566894 seqs, 151307093 residues

Total number of hits satisfying chosen parameters: 566894

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing:

Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3216	99.7	654	10	US-09-919-172-54 Sequence 54, Appl
2	3216	99.7	654	11	US-09-919-039-260 Sequence 260, App
3	3182.5	98.7	653	9	US-09-759-010-2 Sequence 2, Appl1
4	2310.5	71.6	655	14	US-10-117-641-36 Sequence 36, Appl
5	2310.5	71.6	655	15	US-10-235-113-36 Sequence 36, Appl
6	2265.5	70.2	672	15	US-10-128-714-3107 Sequence 3107, Ap
7	2252.5	69.8	672	15	US-10-128-714-8107 Sequence 8107, Ap
8	2083	64.6	646	9	US-09-759-010-4 Sequence 4, Appl1
9	2083	64.6	646	10	US-09-870-759-43 Sequence 43, Appl
10	2083	64.6	646	11	US-09-935-642-16 Sequence 16, Appl
11	2083	64.6	646	11	US-09-919-039-11 Sequence 11, Appl
12	2083	64.6	646	12	US-09-751-08A-43 Sequence 43, Appl
13	2083	64.6	890	15	US-10-100-957A-174 Sequence 174, App
14	2039.5	63.2	641	9	US-09-759-010-3 Sequence 3, Appl1
15	2039.5	63.2	641	11	US-09-935-642-1 Sequence 1, Appl1

16	2039.5	63.2	641	11	US-09-919-039-146	Sequence 146, App
17	2033.5	63.1	649	12	US-10-259-165-214	Sequence 214, App
18	2033.5	63.1	649	12	US-10-259-165-350	Sequence 350, App
19	2030	62.9	651	14	US-10-108-605-75	Sequence 75, Appl
20	2028	62.9	641	11	US-09-919-039-97	Sequence 97, Appl
21	2020	62.6	641	12	US-10-316-253-93	Sequence 93, Appl
22	2019.5	62.6	622	15	US-10-132-556A-2	Sequence 2, Appl1
23	2014	62.4	642	10	US-09-761-534A-10	Sequence 10, Appl
24	2011	62.4	641	12	US-10-316-253-28	Sequence 28, Appl
25	1989.5	62.0	643	11	US-09-847-208-61	Sequence 61, Appl
26	1997.5	61.9	662	15	US-10-234-432-75	Sequence 38, Appl
27	1997.5	61.9	678	15	US-10-234-432-38	Sequence 204, App
28	1978	61.3	643	11	US-09-919-039-204	Sequence 724, App
29	1974	61.2	665	9	US-09-925-302-124	Sequence 11, Appl
30	1959	60.7	643	11	US-09-733-179A-11	Sequence 77, Appl
31	1937.5	59.8	651	15	US-10-234-432-77	Sequence 33, Appl
32	1924.5	59.7	649	15	US-10-234-432-33	Sequence 35, Appl
33	1860.5	57.7	628	15	US-10-234-432-35	Sequence 37, Appl
34	1716	53.2	541	15	US-10-234-432-37	Sequence 5559, Ap
35	1502	46.6	610	9	US-09-815-242-5559	Sequence 12567, A
36	1502	46.6	618	9	US-09-815-242-12567	Sequence 12970, A
37	1502	46.6	618	9	US-09-815-242-12970	Sequence 10015, A
38	1502	46.6	638	9	US-09-815-242-10015	Sequence 13713, A
39	1502	46.6	638	9	US-09-815-242-13713	Sequence 10, Appl
40	1502	46.6	638	15	US-10-181-654-10	Sequence 1, Appl1
41	1501	46.5	637	9	US-09-759-010-1	Sequence 15, Appl
42	1495	46.4	642	15	US-10-269-557-15	Sequence 16, Appl
43	1495	46.4	662	15	US-10-269-557-16	Sequence 13, Appl
44	1492	46.3	642	15	US-10-269-557-13	Sequence 12058, A
45	1491	46.2	637	9	US-09-815-242-12058	

ALIGNMENTS

```
RESULT 1
US-09-919-172-54
: Sequence 54, Application US/09919172
: Patent No. US20020119463A1
: GENERAL INFORMATION:
: APPLICANT: Turner, Mary
: TITLE OF INVENTION: PROSTATE CANCER MARKERS
: FILE REFERENCE: PA-0036 US
: CURRENT APPLICATION NUMBER: US/09/919, 172
: CURRENT FILING DATE: 2001-07-30
: PRIOR APPLICATION NUMBER: 60/222,469
: PRIOR FILING DATE: 2000-07-28
: NUMBER OF SEQ ID NOS: 102
: SOFTWARE: PERL Program
: SEQ ID NO 54
: LENGTH: 654
: TYPE: PRT
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc:feature
: OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1
US-09-919-172-54
Query Match          99.7%: Score 3216; DB 10; Length 654;
Best Local Similarity 100.0%: Pred. No. 2.9e-227;
Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      2 EEDKEDVGTGVGIDLGTTCSCGVFKNGRVEIITANDGNRITPSYAFTEGRLIGDA 61
         |||||||
DB      20 EEDKEDVGTGVGIDLGTTCSCGVFKNGRVEIITANDGNRITPSYAFTEGRLIGDA 79
         |||||||
QY      62 AKNOLTSNPENTVDARLLIGRTWNDSVQODIFLPPKYVEKTKRPYIOVDIGGQTKT 121
         |||||||
DB      80 AKNOLTSNPENTVDARLLIGRTWNDSVQODIFLPPKYVEKTKRPYIOVDIGGQTKT 139
         |||||||
QY      122 FAPFETISAMVLTKKKETAELVIGKVTFAVVTYAFVFDARQATKAGTAGTANVMRII 181
         |||||||
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Db 140 FAPBEISAMVLTKMKETAEAAYLGKKVTHAVVTPAYFENDAOQAOTKADGTAAGLWVMRI 199
Qy 182 NEPTAAAIAYGLDKREGKENILVFDLGGTFDVSLLTIDNGVFEVVAATNGDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGKENILVFDLGGTFDVSLLTIDNGVFEVVAATNGDTHLGGEDFD 259
Qy 242 QRVMEHPTIKLYKKKTGKDVDRKNRAVOKLREVEKAKRALSQOARIEISFYEAGEDFS 301
Db 260 QRVMEHPTIKLYKKKTGKDVDRKNRAVOKLREVEKAKRALSQOARIEISFYEAGEDFS 319
Qy 302 ETLTPAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGSGTRIPRIQOLVKEFF 361
Db 320 ETLTPAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGSGTRIPRIQOLVKEFF 379
Qy 362 NGKPSRCINPDEAAVYAAGVAGVLSGDDPTGDLVLLDVCPLTGIEITGVGMVKLPR 421
Db 380 NGKPSRCINPDEAAVYAAGVAGVLSGDDPTGDLVLLDVCPLTGIEITGVGMVKLPR 439
Qy 422 NTVPPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPAPRGVPOLEY 481
Db 440 NTVPPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPAPRGVPOLEY 499
Qy 482 TFEIDVNGILRYTAEDKGTGNKNKITTINDQNRLLTPEIERMVNDAEKFAEDKKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNKITTINDQNRLLTPEIERMVNDAEKFAEDKKLKERI 559
Qy 542 DTRNELESYAVSLKNOIGDKELGKLSSEDEKETEKAVEEKIEWLESODADIEDFAK 601
Db 560 DTRNELESYAVSLKNOIGDKELGKLSSEDEKETEKAVEEKIEWLESODADIEDFAK 619
Qy 602 KKELEIYQPIISKLYGSAGPPGGEEDTAE 632
Db 620 KKELEIYQPIISKLYGSAGPPGGEEDTAE 650

RESULT 2

US-09-919-039-260
; Sequence 260, Application US/09919039
; Publication No. US20030108871A1
; GENERAL INFORMATION:
; APPLICANT: Kaser, Matthew R.
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
; FILE REFERENCE: PA-0035 US
; CURRENT APPLICATION NUMBER: US/09/919,039
; CURRENT FILING DATE: 2002-09-09
; PRIOR APPLICATION NUMBER: 60/222,113
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 401
; SOFTWARE: PERL Program
; SEQ ID NO 260
; LENGTH: 654
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: m1sc.feature
; OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1
US-09-919-039-260

Query Match Best Local Similarity 99.7%; Score 3216; DB 11; Length 654;

Matches 631; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 EEDKKEDVGTAVGIDLGTTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEGGERLIGDA 61
Db 20 EEDKKEDVGTAVGIDLGTTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEGGERLIGDA 79
Qy 62 AKNOLTSNPENTVPFAKRLIGRTWMDPSVQODIKFLPRVVEKTKPYIQVDIGGGQTKT 121
Db 80 AKNOLTSNPENTVPFAKRLIGRTWMDPSVQODIKFLPRVVEKTKPYIQVDIGGGQTKT 139
Qy 122 FAPBEISAMVLTKMKETAEAAYLGKKVTHAVVTPAYFENDAOQAOTKADGTAAGLWVMRI 181
Db 140 FAPBEISAMVLTKMKETAEAAYLGKKVTHAVVTPAYFENDAOQAOTKADGTAAGLWVMRI 199

Qy 182 NEPTAAAIAYGLDKREGKENILVFDLGGTFDVSLLTIDNGVFEVVAATNGDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGKENILVFDLGGTFDVSLLTIDNGVFEVVAATNGDTHLGGEDFD 259
Qy 242 QRVMEHPTIKLYKKKTGKDVDRKNRAVOKLREVEKAKRALSQOARIEISFYEAGEDFS 301
Db 260 QRVMEHPTIKLYKKKTGKDVDRKNRAVOKLREVEKAKRALSQOARIEISFYEAGEDFS 319
Qy 302 ETLTPAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGSGTRIPRIQOLVKEFF 361
Db 320 ETLTPAKFEELNMDLFRSTMKPVOKVLEDSDLKSDIDEIYLVGSGTRIPRIQOLVKEFF 379
Qy 362 NGKPSRCINPDEAAVYAAGVAGVLSGDDPTGDLVLLDVCPLTGIEITGVGMVKLPR 421
Db 380 NGKPSRCINPDEAAVYAAGVAGVLSGDDPTGDLVLLDVCPLTGIEITGVGMVKLPR 439
Qy 422 NTVPPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPAPRGVPOLEY 481
Db 440 NTVPPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPAPRGVPOLEY 499
Qy 482 TFEIDVNGILRYTAEDKGTGNKNKITTINDQNRLLTPEIERMVNDAEKFAEDKKLKERI 541
Db 500 TFEIDVNGILRYTAEDKGTGNKNKITTINDQNRLLTPEIERMVNDAEKFAEDKKLKERI 559
Qy 542 DTRNELESYAVSLKNOIGDKELGKLSSEDEKETEKAVEEKIEWLESODADIEDFAK 601
Db 560 DTRNELESYAVSLKNOIGDKELGKLSSEDEKETEKAVEEKIEWLESODADIEDFAK 619
Qy 602 KKELEIYQPIISKLYGSAGPPGGEEDTAE 632
Db 620 KKELEIYQPIISKLYGSAGPPGGEEDTAE 650

RESULT 3

US-09-759-010-2
; Sequence 2, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Sliavastava, Pramod K.
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759,010
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 653
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-010-2

Query Match Best Local Similarity 98.7%; Score 3182.5; DB 9; Length 653;

Matches 627; Conservative 0; Mismatches 3; Indels 1; Gaps 1;

Qy 2 EEDKKEDVGTAVGIDLGTTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEGGERLIGDA 61
Db 20 EEDKKEDVGTAVGIDLGTTTSCVGVFKNGRVEIIANDOGNRITPSYVAFTEGGERLIGDA 79
Qy 62 AKNOLTSNPENTVPFAKRLIGRTWMDPSVQODIKFLPRVVEKTKPYIQVDIGGGQTKT 121
Db 80 AKNOLTSNPENTVPFAKRLIGRTWMDPSVQODIKFLPRVVEKTKPYIQVDIGGGQTKT 139
Qy 122 FAPBEISAMVLTKMKETAEAAYLGKKVTHAVVTPAYFENDAOQAOTKADGTAAGLWVMRI 181
Db 140 FAPBEISAMVLTKMKETAEAAYLGKKVTHAVVTPAYFENDAOQAOTKADGTAAGLWVMRI 199
Qy 182 NEPTAAAIAYGLDKREGKENILVFDLGGTFDVSLLTIDNGVFEVVAATNGDTHLGGEDFD 241
Db 200 NEPTAAAIAYGLDKREGKENILVFDLGGTFDVSLLTIDNGVFEVVAATNGDTHLGGEDFD 259

QY	242	RRVHEHFLIKLYKKKGGKDVKRNKRVAVOKTARRFEYKXKRALSSOHARIEIESYEGEDFS	301
Db	260	QRYMEHFLIKLYKKKGGKDVKRNKRVAVOKTARRFEYKXKRALSSOHARIEIESYEGEDFS	318
QY	302	ETLTRAKEEELNMDLFRSTMRPVOKYLEDSDLKSSDIDEIVLGGSTRIPLKIQOLVKEFF	361
Db	319	ETLTRAKEEELNMDLFRSTMRPVOKYLEDSDLKSSDIDEIVLGGSTRIPLKIQOLVKEFF	378
QY	362	NGKEPSRGINPDEAVAYGAAVAGVLSGQDGTGDLVLDVCPITLIGIEYGVGVMTKLIPR	421
Db	379	NGKEPSRGINPDEAVAYGAAVAGVLSGQDGTGDLVLDVCPITLIGIEYGVGVMTKLIPS	438
QY	422	NTVYPTKRSQJFSTASDNOPVTIRKYEEDEBRLPTKNNHLLGTFDLGIIPAPRGVPOIEV	481
Db	439	NTVYPTKRSQJFSTASDNOPVTIRKYEEDEBRLPTKNNHLLGTFDLGIIPAPRGVPOIEV	498
QY	482	TFEIDVNGILRTAEDKGTGNKNKITITNDONRLTPEELIERMVDNAEKFABEERKULKERI	541
Db	499	TFEIDVNGILRTAEDKGTGNKNKITITNDONRLTPEELIERMVDNAEKFABEERKULKERI	558
QY	542	DTRNELESTAYSLKNOIGDKERLGGKLSSEDKETMKEAVEEKTIEWLSEHODADIEDFKAK	601
Db	559	DTRNELESTAYSLKNOIGDKERLGGKLSSEDKETMKEAVEEKTIEWLSEHODADIEDFKAK	618
QY	602	KKLELEIYOPITISKLYGSAGPPPTGEEDPAE	632
Db	619	KKLELEIYOPITISKLYGSAGPPPTGEEDPAE	649

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RESULT 4
US-10-117-641-36
: Sequence 36, Application US/10117641
: Publication No. US20020194640A1
: GENERAL INFORMATION:
: APPLICANT: Mista, Santosh et al.
: TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METHOD
: FILE OF INVENTION: ITS USE
: FILE REFERENCE: 62586
: CURRENT APPLICATION NUMBER: US/10/117,641
: CURRENT FILING DATE: 2002-04-03
: PRIOR APPLICATION NUMBER: 09/632,538
: PRIOR FILING DATE: 2000-08-04
: NUMBER OF SEQ ID NOS: 37
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 36
: LENGTH: 655
: TYPE: PRT
: ORGANISM: Pseudotsuga menziesii
US-10-117-641-36

```

Query Match	71.68;	Score 2310.5;	DB 14;	Length 655;
Best Local Similarity	70.38;	Pred. No. 6.5e-161;		
Matches 445;	Conservative 89;	Mismatches 94;	Indels 5;	Gaps 3;

QY	2	EEDKEDGATVVGIDLGTTSCGVGFKNRNVETIANDQNRRTPTSVAFPEEERIIGDA	61
Db	20	EEAK - LGTVIGIDLGTTSCGVGYKKNHVEIANDQNRRTPTSWAT - DTERLIGEA	76
QY	62	AKNOLTSNPENTVEDAKRLIGRTWMDPSVOODIKFLPFKVEKRTKPYTIOVDIGGQFTK	121
Db	77	AKNOAMMPERTVEPVUKRLIGRKREYEDKEVOKDIKLPLYRIVNKDGPRYIOVKTRDEIRK	136
QY	122	FAPBEISAMVLTKMKETAAYLGCKRQTHVVMVPAENAOAROTADAGTACLANMRTI	181
Db	137	FSPEELSAMILKKMETAESYLGKRKIKDAVVYPAFBNQORATIDAGVIAGLANVARI	196
QY	182	NEPTAAIAYGDKREGEKENILVFDIGGTFDVSLLTIDNGVEVYATNDGTIHGEDFD	241
Db	197	NEPTAAIAYGDKGGEKENILVYDGGTFDVSILITIDNGVEVLSTSGDTHLGGEDFD	256
QY	242	QRYMHFTIKLYKKKRGKQVNRKDNRAVOKLRREYERKKRALSQHQARIELESTEEGEDFS	301
Db	257	QRWMDYFIKLKKKHNKNDISKNRALGKLRARCEERKRALSSQHQVRVELESFTDGVDS	316

QY	302	ELTFAKPEELMNDPEFRSMKPVOKVLESDLKSPIDELVYVGGSTRIPKIOOLKEFP	361
Db	317	BPITAPAREBELMNDLFKKTIGVCAKALDANÜKETEINELVYVGGSTRIPKVOOLKDLF	376
QY	362	NGKEPSRGINDPEAAVAYGAAYGAVLSCD--DDTGDLVLLDYCPYLIGIETVGGVMTKLI	419
Db	377	DGKEHNKGVNPDENAVAYGAAYGCGILSSGSGSETNILLDDVAPLSLGIETVGGVMTKLI	436
QY	420	PRNTVVPTRKKSQIESTASDNQPPVTYIKVYEGEGRPLTKDNHLLGTFDLTGIPAPRGVPOI	479
Db	437	PRNTYIPTRKKSQVFTTYDDQOTVTSIKVYEGERSLTKDCRELKGFSLGIPAPRGVPOI	496
QY	480	EYTFEIDVANGILRVAAEDKGTGNKKKITTNDQNRILTPREIEMVANDAEKFAEDKKLKE	539
Db	497	EYTFEVDANGILVNAEDKGTGKTEKRTITTNPKRGILSOEIEIMVYEAEEFAEDKKVXD	556
QY	540	RIDTNENELESYVSLKNQDGEKKEKLGKLSSEDEKTEMEKAVEKIMLWSHOADJEDFK	599
Db	557	KIDARNNTLETYYVNMKSTINEKDKLADKIDSEKKEITAIKALEMIDNOSAEKEDFE	616
QY	600	AKKKELEIIVQPIISKLYGSAGPPPTGEEDTA	632
Db	617	EKLKEVEAVCSPIIKÖVYEKTEGGSGSGGDEDE	649

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RESULT 5
US-10-235-113-36
; Sequence 36, Application US/10235113
; Publication No. US20030100748A1
; GENERAL INFORMATION:
; APPLICANT: Misra, Santosh et al.
; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND M
; TITLE OF INVENTION: ITS USE
; FILE REFERENCE: 62667
; CURRENT APPLICATION NUMBER: US/10/235.113
; CURRENT FILING DATE: 2002-09-04
; PRIOR APPLICATION NUMBER: 10/117,641
; PRIOR FILING DATE: 2002-04-03
; PRIOR APPLICATION NUMBER: 09/632,538
; PRIOR FILING DATE: 2000-08-04
; NUMBER OF SEQ ID NOS: 43
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 655
; TYPE: prf
; ORGANISM: Pseudotsuga menziesii
US-10-235-113-36

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Query Match	71.68;	Score 2310.5;	DB 15;	Length 655;
Best Local Similarity	70.38;	Pred. No. 6.5e-161;		
Matches 445;	Conservative 89;	Mismatches 94;	Indels 5;	Gaps 3;

[illegible]

[illegible]

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RESULT 10
US-09-935-642-16
: Sequence 16, Application US/09935642
: Publication No. US20030044795A1
: GENERAL INFORMATION:
: APPLICANT: BYRJALSEN, Inger
: APPLICANT: LARSEN, Peter
: APPLICANT: STEPHEN, John
: TITLE OF INVENTION: Biochemical Markers for the Human
: TITLE OF INVENTION: Endometrium
: FILE REFERENCE: 8969-014
: CURRENT APPLICATION NUMBER: US/09/935,642
: CURRENT FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: PCT/GB97/02394
: PRIOR FILING DATE: 1997-09-05
: PRIOR APPLICATION NUMBER: PCT/GB9707132.8
: PRIOR FILING DATE: 1997-04-08
: PRIOR APPLICATION NUMBER: PCT/GB9618600.2
: PRIOR FILING DATE: 1996-09-06
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 16
: LENGTH: 646
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-935-642-16

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Query Match	64.68;	Score 2083;	DB 11;	Length 646;
Best Local Similarity	66.18;	Pred. No. 3e-144;		
Matches 410;	Conservative 97;	Mismatches 107;	Indels 6;	Gaps 5

Oy GTVAGIDGTTYSCGVGNKNGVEIITANDOCRRTPSVAFPECEBRIIGDAKKOLNLS 69
| | | | | : | | | | | : | | | | | : | | | | | :
Db GAVAGIDGTTYSCGVGFQHGKVETLIANDOCRRTPSVAFPT-DTERLIGDAKKOVAMN 62
| | | | | : | | | | | : | | | | | : | | | | | :
Oy PENTVFADAKRLIGRWNDPSVOODIKFLPFVKVEKTKRPYIOVDLGCGOTKTFADEISA 129
| | | | | : | | | | | : | | | | | : | | | | | :

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Db      63  PTNTVFOAKRLTIGREDDAAVQSDMKHMPVMVNDAGRPKVQVEH -KGETSFSYEEBVS 121
Oy      130  MVLTRKMKATAEYLGGKKTTHAVVTVYPAVFNDQORATODAGTLAGLNMRRITNETPAAI 189
Db      122  MVLTRKMKIATAEYLGGKTTHAVVTVYPAVFNDQORATODAGTLAGLNMRRITNETPAAI 181
Oy      190  AYGJDKRKG-ENKILVPDLGGTTPVSLTITDNGVEFVATNGCHLGGEDDOVMHF 248
Db      182  AYGJDKKGAERNNVLEFDLGGTEFVSLTITEDGIFEVKSTAGDTHLGGEDDMMVNH 241
Oy      249  IKLKKKKKGVKRDNRKDNRAVOKLREVEKAKRALSQHOARIEIESFEEDGFESELTTRAK 308
Db      242  IAEFRKKKKKIOSEKRAVRRLRTGCEAKARLTSSSTQASIEDLSEIDYTSITRAR 301
Oy      309  FEELNMDLFRSTMKPVQKVLVEDSDLKSDIDEIVLVGSGSTRIPKIQOLVKEFFNGKDEPSR 368
Db      302  FEELNADLFRGTLDPVEKALRPADLKSDQIHDIYLVGSGSTRIPKIQOLVKEFFNGKELNK 361
Oy      369  GINPEAAVGAAYOAVGVLSGD -ODPQDVLVLDVCPVLGTIGTGVGWTKLIPRNTVYP 426
Db      362  SINPEAAVGAAYOAAVLISGDSKSNVODLLLDVTPLSLGLTIGVGVWTVLTKRNTTIP 421
Oy      427  TKKSOIFSTASDNQPTVTIKVYEGEPRPLTKDNLHLGTDFDLGIPAPRQGPVQIEVTFEID 486
Db      422  TKQYOTFTTYSDNQGVLIQYIEGGRAMTKDNLLGKLFELTGISIPAPRQGPVQIEVTFEID 481
Oy      487  VNGILRYTAEDKGSTGNKNKITTTDQNRILTPREIERMVNDAEKFAEDBKTLKERIDTRNE 546
Db      482  ANGLINAVSANDKSTGKKNKITTTDQNRILTPREIERMVNDAEKFAEDBKTRKSDSKNS 541
Oy      547  LESYAFSLKNOIGKEKLGKLSGDSDEKTEMAKAEKTEBLESHODADIDEFRKAKKKELE 606
Db      542  LESYAFNNKATVED-EKLOGKINDEKOKIILDKCNEIINMDLKNOTAEEKEFEEHOKKELE 600
Oy      607  EIVQPIISKLVSAGNPPRG 626
Db      601  KVCNPIITRKLVSAGNMPGG 620

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: RESULT 11
: US-09-919-039-11
: Sequence 11, Application US/09919039
: Publication No. US20030108871A1
: GENERAL INFORMATION:
: APPLICANT: Kaser, Matthew R.
: TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN CSA LIVER CELL CULTURES
: FILE REFERENCE: PA-0935 US
: CURRENT APPLICATION NUMBER: US/09/919,039
: CURRENT FILING DATE: 2002-09-09
: PRIOR APPLICATION NUMBER: 60/222,113
: PRIOR FILING DATE: 2000-07-28
: NUMBER OF SEQ ID NOS: 401
: SOFTWARE: PERL Program
: SEQ ID NO 11
:
: LENGTH: 646
:
: TYPE: PRT
:
: ORGANISM: Homo sapiens
:
: FEATURE:
:
: NAME/KEY: misc_feature
:
: OTHER INFORMATION: Incyte ID No. US20030108871A1 1545176CD1
: US-09-919-039-11

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Query Match	64.68;	Score 2083;	DB 11;	Length 646;
Best Local Similarity	66.18;	Pred. No. 3e-144;		
Matches 410;	Conservative 97;	Mismatches 107;	Indels 6;	Gaps 5;

[illegible]

426 AYGDKKVGAERNVLIEDGGGTEDVSLTIEDGIFFEVKSAGDTHLGEFDNRNVHF 485
429 IKLYKKKTGDKVRNDNRVOKLRRREVAKKRALSSOHOARIESFEYEGEDFSETLTRAK 308
486 IAEFRKHKDKISEKRAVRRLRACERAKRTLSSSTQASIEIDSLYEGIDFYYSITRAR 545
309 FEELNMDLFRSTMKPVQVLEDSDLKSSDIDEIYLVGSGTIRPKIQOLVKFEFNKEKSR 368
546 FEELNADLFRGTLPVEKALDKLDSQIHDIVLVGSTRIPKIQOLDFEFGKEKLNK 605
369 GINDEAVAYGAOVAQVLSGD--ODTGLVLLDVCPLTLGIEYGVGWTLPKNTVVP 426
606 SINDEAVAYGAOVAQVLSGD--ODTGLVLLDVCPLTLGIEYGVGWTLPKNTVVP 665
427 TKSQIFSTASDNOPTVYIKYEGEERPLTKDNHLGTFDLTGIPAPRGVQIEVTEFID 486
666 TKQOTFTTYSNDQGVLIQYEGEERATKDNHLGTFDLTGIPAPRGVQIEVTEFID 725
487 VNGILRVAVEDKSGNKKKITTNDQNLTPPEIERVAVNDAEKFAEDDKLKERIDTRNE 546
726 ANGLINAVAVKSTGCKENKITTNDKRLSKEDIERVQAEKKADEKQDKVSSKNS 785
547 LESVAYSLKNOIGKEXLGSSEDEKTEMKAVEKTEMLESODADIEDFKAKKELE 606
786 LESTAFNKATVED-EKLGKINDEDKOKILDKCNEITNMLDKNOTAKEEPEHQQELE 844
607 EIVOPILSKLYGSAGPPPTG 626
845 KVCNPIITKLYQAGCMFG 864

RESULT 14
US-09-759-010-3
; Sequence 3, Application US/09759010
; Patent No. US20010034042A1
; GENERAL INFORMATION:
; APPLICANT: Srivastava, Pramod K
; TITLE OF INVENTION: COMPLEXES OF PEPTIDE BINDING FRAGMENTS OF HEAT-SHOCK
; FILE REFERENCE: 8449-135
; CURRENT APPLICATION NUMBER: US/09/759, 010
; CURRENT FILING DATE: 2001-01-12
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-759-010-3

Query Match 63.2%; Score 2039.5; DB 9; Length 641;
Best Local Similarity 64.4%; Pred. No. 4.5e-141;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

13 VGIDGTTYSCVGVGKNGRVEIANDQGNRTTPSVAFTEPGERLIGDAKNQVLSNEN 72
7 IGIDGTTYSCVGVGKNGRVEIANDQGNRTTPSVAFTEPGERLIGDAKNQVLSNEN 65
73 TVFDAKRLIGRTWMDPSVQODIKLPRFVVEKTKRYIQVDIGGGQRTFAPPEISAVYL 132
66 TVFDAKRLIGRTWMDPSVQODIKLPRFVVEKTKRYIQVDIGGGQRTFAPPEISAVYL 124
133 TKMKEIAAYLGKVTNVAIVTVPAYFNDQROATKDACTAGLNVMTIRINEPTAAAIYG 192
125 TKMKEIAAYLGKVTNVAIVTVPAYFNDQROATKDACTAGLNVMTIRINEPTAAAIYG 184
123 TKMKEIAAYLGKVTNVAIVTVPAYFNDQROATKDACTAGLNVMTIRINEPTAAAIYG 251
185 LDRGKGRNVLIIFDLGGGTEDVSLTIDGIFEVKATAGDTHLGEFDNRNVHFVEE 244
252 YKKTKGKDVNRDNRVOKLRRREVAKKRALSSOHOARIESFEYEGEDFSETLTRAKEE 311
245 FKRKKKDISSQNKRAVRRLRACERAKRTLSSSTQASIEIDSLYEGIDFYYSITARPEE 304

312 LNMDFRSTMKPVQVLEDSDLKSSDIDEIYLVGSGTIRPKIQOLVAFENGKEPSPGCI 371
305 LNSDLFRSTLPVEKALDKLDSQIHDIVLVGSTRIPKIQOLDFEFGKRLNKSIN 364
372 PDEAVAYGAOVAQVLSGD--ODTGLVLLDVCPLTLGIEYGVGWTLPKNTVVP 429
365 PDEAVAYGAOVAQVLSGD--ODTGLVLLDVCPLTLGIEYGVGWTLPKNTVVP 424
430 SIFSTASDNOPTVYIKYEGEERPLTKDNHLGTFDLTGIPAPRGVQIEVTEFID 489
425 TQIFFTYSNDQGVLIQYEGEERATKDNHLGTFDLTGIPAPRGVQIEVTEFID 484
490 ILRVAVEDKSGNKKKITTNDQNLTPPEIERVAVNDAEKFAEDDKLKERIDTRNE 549
485 ILRVAVEDKSGNKKKITTNDQNLTPPEIERVAVNDAEKFAEDDKLKERIDTRNE 544
550 YAVSLKNOIGKEXLGSSEDEKTEMKAVEKTEMLESODADIEDFKAKKELE 609
545 YAFNKSAYED-EGLKGINDEDKOKILDKCNEITNMLDKNOTAKEEPEHQQELE 603
610 QPILSKLY-GSAGPPPTG 626
604 NPILSKLY-GSAGPPPTG 621

RESULT 15
US-09-935-642-1
; Sequence 1, Application US/09935642
; Publication No. US20030044795A1
; GENERAL INFORMATION:
; APPLICANT: BYRJALSEN, Inger
; APPLICANT: LARSEN, Peter
; APPLICANT: STEPHEN, John
; TITLE OF INVENTION: Biochemical Markers for the Human
; FILE REFERENCE: 8969-014
; CURRENT APPLICATION NUMBER: US/09/935, 642
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: PCT/GB97/02394
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: PCT/GB9707132.8
; PRIOR FILING DATE: 1997-04-08
; PRIOR APPLICATION NUMBER: PCT/GB9618600.2
; PRIOR FILING DATE: 1996-09-06
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 641
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-935-642-1

Query Match 63.2%; Score 2039.5; DB 11; Length 641;
Best Local Similarity 64.4%; Pred. No. 4.5e-141;
Matches 398; Conservative 105; Mismatches 108; Indels 7; Gaps 6;

13 VGIDGTTYSCVGVGKNGRVEIANDQGNRTTPSVAFTEPGERLIGDAKNQVLSNEN 72
7 IGIDGTTYSCVGVGKNGRVEIANDQGNRTTPSVAFTEPGERLIGDAKNQVLSNEN 65
73 TVFDAKRLIGRTWMDPSVQODIKLPRFVVEKTKRYIQVDIGGGQRTFAPPEISAVYL 132
66 TVFDAKRLIGRTWMDPSVQODIKLPRFVVEKTKRYIQVDIGGGQRTFAPPEISAVYL 124
133 TKMKEIAAYLGKVTNVAIVTVPAYFNDQROATKDACTAGLNVMTIRINEPTAAAIYG 192
125 TKMKEIAAYLGKVTNVAIVTVPAYFNDQROATKDACTAGLNVMTIRINEPTAAAIYG 184
123 TKMKEIAAYLGKVTNVAIVTVPAYFNDQROATKDACTAGLNVMTIRINEPTAAAIYG 251
185 LDRGKGRNVLIIFDLGGGTEDVSLTIDGIFEVKATAGDTHLGEFDNRNVHFVEE 244

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QY 252 YKKTGKDVAKRONRAVOKLREVEKAKRALSSQHOARIEIESFYEGEDEFSETLTRAKFEE 311
Db 245 FKRXHKKDISQNRRAVRRLTACERAKRTLSSSTQASLFEIDSLFEGIDFYTSITRAFEE 304
QY 312 LNMDLFRSTMPQVQXVLESDLLKSDIDELVYVGSTRIPKIQOLVKEFFNGKEPSKGIN 371
Db 305 LCSDLFRSTLEPEVEKALROAKLDKQIHDLVYVGSTRIPKQVOLLDFENGRLNKSIN 364
QY 372 PDEAVAYGAAYGAGVLSGD--ODTGDVLLDVCPLTIGITVGGVMTKLI.PRNTVVPYTKK 429
Db 365 PDEAVAYGAAYGAAVQAAILMGDKSENVQDILLIDVAPLSLGLGTAGGVMTALIKRNSTIPTKQ 424
QY 430 SQIFSTASDNQPTVTIKVYEGEERPLTKDNHLLGTFDLTGIPAPRGVPOIEVTFEIDVNG 489
Db 425 TQIFTTYSDNQPGVLIOVEGERAMTKDNLLGRFELSGILPAPRGVPOIEVTFEIDANG 484
QY 490 ILAVTAEDKGTGNKKKITTNDONRLTPEIEBRVNDAEKFAEDKKLKERIDTRNELES 549
Db 485 ILNVTATDKSTGKANKITTNDKGRLSKEIEIRVQEAERYKKAEDVQREVRVSAKNALLES 544
QY 550 YAVSLANQIGDKREKLGKLSSEDEKEMEKAVEEKIEWLESQDADIEDFAKKKELFEIV 609
Db 545 YAFNMKSAVED-EGLGKGISADKKKVLKQCQEVISWLDANLAEKDEFHKKRKELEQVC 603
QY 610 OPTISKLY-GSAGPPPTG 626
Db 604 NPITSGLYOGAGGPGPG 621
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